



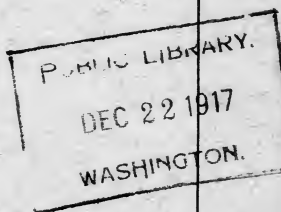
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ANNUAL REPORT OF THE
COMMISSIONERS OF THE
DISTRICT OF COLUMBIA
YEAR ENDED JUNE 30, 1917

Vol. III
REPORT OF
THE HEALTH OFFICER



WASHINGTON

1917



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COMMISSIONERS OF THE
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Vol. III
REPORT OF
THE HEALTH OFFICER



U.S. GOVERNMENT
PRINTING OFFICE

WASHINGTON

1917

1900

OFFICERS AND EMPLOYEES OF THE HEALTH DEPARTMENT.

JUNE 30, 1917.

Health officer.

WILLIAM C. WOODWARD, M. D.

Assistant health officer.

JOHN L. NORRIS, M. D.

Chief clerk and deputy health officer.

ARTHUR G. COLE.

Clerks.

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C. D. HERRMANN.
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G. O. RUSSELL.
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M. LUCILLE GARDINER.
R. C. KILMARTIN, JR.
H. S. COPPERTHITE.

Chief sanitary inspector.

C. R. HOLMAN.

Assistant chief sanitary inspector.

J. FRANK BUTTS.

Chief food inspector.

R. R. ASHWORTH, D. V. S.

Assistant chief food inspector.

R. S. WILSON.

Bacteriologist.

J. J. KINYOUN, M. D.

Assistant bacteriologists.

J. F. WALSH, M. D.

L. V. DIETER, Phar. D.

Chemist.

M. A. POZEN, Phar. D., B. S.

Assistant chemist.

MOSES STARBECKER.

REPORT OF THE HEALTH OFFICER.

Sanitary inspectors.

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C. H. BUCHANAN.
W. R. SMITH.
C. C. STAUB.

C. H. WELCH.
E. W. WHITAKER.
R. RANDALL.
T. B. CARROLL.

D. C. MALCOLM.
B. R. MINSHALL.

Food inspectors.

J. P. TURNER, V. M. D.
H. S. DRAKE, V. S.
J. R. GRIME, D. V. S.
JOHN ROME, D. V. S.
E. R. SANDO, D. V. S.

W. B. DODGE.
H. J. MULLIGAN.
R. A. GUERRANT.
H. S. LUCAS.
W. H. CAMERON.

PERCY TALLEY.
A. L. MURRAY.
W. H. H. HOOVER.
H. V. NEALE.

Eight-hour female labor.

W. C. DILLER, inspector
M. L. SIMPSON, inspector.

CAROLINE S. DAVIS.
T. G. SCOTT.

Pound service.

G. W. RAE, poundmaster.

Laborers.

J. BURRILL.
G. A. PATTERSON.

B. PRICE.
J. H. SHELTON.

Skilled laborers.

F. W. WILLNER.

H. LEVY.

Messenger and janitor.

J. H. PECK.

Driver.

ISAAC PINKNEY.

Contagious-disease service.

W. C. FOWLER, M. D., chief medical inspector.
LLEWELLYN ELIOT, M. D., medical inspector. J. D. BRADFIELD, M. D., medical inspector.
E. L. LE MERLE, M. D., medical inspector. W. J. FRENCH, M. D., medical inspector.

MARY H. CULBERTSON, inspector.

Skilled laborer.

J. J. QUICKLEY.

Laborer.

G. W. HALL.

Disinfecting service.

C. M. BEALL, M. D., inspector.

W. D. TAPSCOTT, disinfecter.

EDW. NEWMAN, disinfecter.

Crematorium.

ERNEST BISHOP, superintendent.

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REPORT OF THE HEALTH OFFICER.

HEALTH DEPARTMENT,
Washington, October 10, 1917.

GENTLEMEN: I have the honor to submit the following report for the fiscal year ended June 30, 1917:

PART I.

PUBLIC HEALTH IN THE DISTRICT OF COLUMBIA DURING THE CALENDAR YEAR 1916, WITH A SUPPLEMENTARY STATEMENT RELATING TO THE FIRST SIX MONTHS OF THE CALENDAR YEAR 1917.

Statistics of births, stillbirths, cases of reportable illness, and deaths are set forth in detail in the appendix, to which reference must be made for information not found in the body of this report

POPULATION.

No census was taken during the calendar year 1916. In this report all birth rates, stillbirth rates, morbidity rates, and death rates for the calendar year 1916 are based upon an estimated population of 359,997, the estimated white population being 260,854, and the estimated colored population 99,143.

GENERAL BIRTH RATES AND DEATH RATES.

The total number of births, stillbirths, and deaths recorded during the calendar year 1916, with corresponding birth rates, stillbirth rates, and death rates, and similar data for previous years for purposes of comparison, are stated in the following table:

Population, births, stillbirths, and deaths in the District of Columbia, with corresponding rates, during the calendar years 1901-1916, inclusive.

Calendar years.	Popula- tion.	Live births.	Still- births.	Deaths.	Rate per 1,000.		
					Births.	Still- births.	Deaths.
1901-1905 ¹	311,325	5,409	570	6,042	17.38	1.83	19.41
1906-1910 ¹	336,940	6,900	577	6,304	20.48	1.71	18.71
1911.....	349,568	7,032	504	6,303	20.12	1.44	18.03
1912.....	352,936	7,007	501	6,259	19.85	1.42	17.73
1913.....	353,297	6,903	500	6,006	19.54	1.41	16.99
1914.....	353,664	7,130	447	5,866	20.16	1.26	16.59
1915.....	357,749	7,067	440	6,505	19.75	1.23	18.18
1911-1915 ¹	353,443	7,028	478	6,188	19.88	1.35	17.50
1916.....	359,997	7,258	417	6,494	20.16	1.15	18.04

¹ Average for 5-year period.

BIRTHS AND STILLBIRTHS.

Births.—An analysis of registered live births and stillbirths according to race appears in the following table:

Nativity in the District of Columbia, by years and by race, during the calendar years 1906-1916, inclusive.

Calendar years.	Births and stillbirths registered.				Rate per 1,000 of corresponding population.			
	White.	Colored.	Un-known.	Total.	White.	Colored.	Un-known.	Total.
1906-1910 ¹	4,832	2,583	62	7,427	20.1	26.7	.....	22.2
1911.....	4,943	2,524	69	7,536	19.7	25.7	.....	21.6
1912.....	4,901	2,532	75	7,508	19.2	25.7	.....	21.3
1913.....	4,834	2,509	60	7,403	18.9	25.6	.....	20.9
1914.....	5,104	2,422	51	7,577	19.9	24.8	.....	21.4
1915.....	5,027	2,430	50	7,507	19.8	24.6	.....	21.0
1911-1915 ¹	4,962	2,483	61	7,506	19.5	25.3	.....	21.0
1916.....	5,213	2,408	54	7,675	20.0	24.3	.....	21.3

¹ Average for 5-year period.

Live births.—There were recorded during the year 7,258 live births, equivalent to a birth rate of 20.16. Figures for comparison with previous years appear on the table printed on page 8.

Live births among the white population numbered 5,042, equivalent to a live-birth rate of 20.09, and among the colored live births numbered 2,216, live-birth rate 22.35.

Stillbirths.—The frequency of stillbirths, according to race and according to the legitimacy or illegitimacy of the child, is stated in the following table:

Stillbirths in the District of Columbia, relative frequency of, with reference to race, legitimacy, and illegitimacy, during the calendar years 1906-1916, inclusive.

Calendar year.	Registered stillbirths.				Rate per 1,000.				Percentage of stillbirths of each class named below computed upon the basis of all live and stillbirths together for each such class.					
									By race.				Social status.	
	White.	Colored.	Unknown.	Total.	White.	Colored.	Unknown.	Total.	White.	Colored.	Unknown.	Total.	Legitimate.	Illegitimate.
1906-1910 ¹	200	315	62	577	0.8	3.2	.....	1.7	4.1	12.2	.....	7.7	5.6	14.9
1911.....	171	266	67	504	.7	2.7	.....	1.4	3.5	10.5	.....	6.7	5.0	12.8
1912.....	167	259	75	501	.7	2.6	.....	1.4	3.4	10.2	.....	6.7	4.9	12.8
1913.....	167	273	60	500	.7	2.8	.....	1.4	3.5	10.9	.....	6.8	5.1	13.3
1914.....	179	217	51	447	.6	2.2	.....	1.3	3.5	8.9	.....	5.8	4.6	12.1
1915.....	155	235	50	440	.6	2.4	.....	1.2	3.1	9.7	.....	5.9	4.5	12.5
1911-1915 ¹	168	250	61	478	.7	2.5	.....	1.3	3.4	10.0	.....	6.4	4.8	12.6
1916.....	171	192	54	417	.7	1.9	.....	1.2	3.3	8.0	.....	5.4	4.1	13.4

¹ Average for 5-year period.

Of white children born in institutions 4.2 per cent were born dead, while among those born in homes only 2.8 per cent were stillborn. Of colored children born in institutions 9.1 per cent were born dead,

while of those born in homes 7.3 were stillborn. Details appear in the following table:

Stillbirths in the District of Columbia, relative frequency of, in home and hospital practice, during the calendar year 1916.

Place of birth.	White.			Colored.			Un-known race.	Total per cent of still to live and still births.
	Live births.	Still-births.	Per cent of still to live and still births.	Live births.	Still-births.	Per cent of still to live and still births.		
Institutions.....	1,853	78	4.2	837	84	9.1	.....	5.6
Homes.....	3,189	93	2.8	1,379	108	7.3	1 54	5.3
Total.....	5,042	171	3.3	2,216	192	8.0	1 54	5.4

¹ Of unknown race, presumably born in homes.

If inquiry be limited to infants born under the care of physicians, of the infants born in hospitals 5.7 per cent were stillborn, while of those born in homes the percentage of stillborn children was 4.5. Details appear in the following table:

Stillbirths in the District of Columbia, according to professional attendance, relative frequency of, in home and hospital practice, during the calendar year 1916.

Attended by—	Confined at homes.		Confined at hospitals.		Percentage of stillbirths to live births and stillbirths.		
	Live births.	Still-births.	Live births.	Still-births.	Homes.	Hospital.	Homes and hospitals.
Physicians.....	4,010	193	2,690	162	4.5	5.7	5.0
Midwives.....	558	8	.....	.....	1.4	.....	.....
Unknown.....	.....	1 54	.....	.....	.....	.....	.....
Total.....	4,568	255	2,690	162	5.3	5.7	5.7

¹ Of unknown race, presumably born in homes.

Illegitimacy.—There was a substantial reduction in the percentage of births and stillbirths reported as illegitimate during the calendar year 1916, both among white and among colored women, as is shown in the following table:

Illegitimacy in the District of Columbia, prevalence of, by years and by race, during the calendar years 1906-1916, inclusive.

Calendar year.	Illegitimate births and stillbirths registered.				Rates per 1,000 corresponding population.				Percentage of all births and stillbirths reported as illegitimate.			
	White.	Colored.	Un-known.	Total.	White.	Colored.	Un-known.	Total.	White.	Colored.	Un-known.	Total.
1901-1910 ¹	110	572	.....	682	0.5	5.9	.....	2.0	2.3	22.1	.....	9.2
1911.....	105	557	67	729	.4	5.7	.....	2.1	2.1	22.1	.....	9.7
1912.....	112	574	88	774	.4	5.8	.....	2.2	2.3	22.7	.....	10.3
1913.....	123	570	69	762	.5	5.8	.....	2.2	2.5	22.7	.....	10.3
1914.....	98	507	55	660	.4	5.2	.....	1.9	1.9	20.9	.....	8.7
1915.....	119	495	56	670	.5	5.0	.....	1.9	2.4	20.4	.....	8.9
1911-1915 ¹	111	541	67	719	.4	5.5	.....	2.1	2.2	21.7	.....	9.6
1916.....	89	466	55	610	.3	4.7	.....	1.7	1.7	19.3	.....	7.3

¹ Average for 5-year period.

The distribution of illegitimate births according to the ages of mothers of the children born is shown in the following table:

Illegitimacy in the District of Columbia: Ages of mothers of illegitimate children whose births and stillbirths were recorded during the calendar years 1911-1916, inclusive.

Calendar year.	Ages of mothers in years.												
	12	13	14	15	16	17	18	19	20	Total under 21.	21 and over.	Age not stated.	Total.
1911.....		3	4	17	33	49	54	51	46	257	204	182	643
1912.....		1	7	19	52	77	90	76	57	379	225	170	774
1913.....	1	4	29	55	80	98	82	62		412	275	6	693
1914.....		1	8	15	53	67	106	62	49	361	215	29	605
1915.....		1	7	18	51	80	84	66	60	367	233	14	614
1916.....		1	9	18	50	64	72	81	43	338	200	17	555

Births in institutions and under the care of midwives.—The increased tendency to resort to hospitals in cases of confinement, and the decreased employment of midwives, commented on in previous reports, has continued during the calendar year 1916, as shown in the following table:

Midwives and lying-in hospitals in the District of Columbia: Live births reported by midwives and from institutions during the calendar years 1906-1916, inclusive.

Calendar year.	Number reported.			Percentage reported.	
	Total.	From institutions.	By midwives.	From institutions.	By midwives.
1906-1910 ¹	6,900	1,286	1,295	18.6	18.8
1911.....	7,032	1,616	1,042	23.0	14.8
1912.....	7,007	1,788	953	25.5	13.6
1913.....	6,903	1,936	842	28.0	12.2
1914.....	7,130	2,182	699	30.6	9.8
1915.....	7,067	2,467	604	34.9	8.5
1911-1915 ¹	7,028	1,998	828	28.4	11.8
1916.....	7,258	2,690	558	37.1	7.7

¹ Average for 5-year period.

STATISTICS OF ILLNESS AND DEATHS.

General mortality.—Deaths during the calendar year 1916 numbered 6,494, as compared with 6,505 during the preceding year. The death rate fell from 18.8 to 18.04. Even the latter figure, however, does not compare favorably with death rates during preceding years, as can be seen by reference to table published on page 11. What the cause or causes were of the increased death rates during the two years just named are not known.

Mortality by race.—The usual relatively high death rate in the colored population as compared with the death rate for the white population prevailed in the calendar year 1916, as is shown in the following table:

Racial population, deaths and death rates in the District of Columbia, by calendar years, from 1901 to 1916, inclusive.

Years.	Population.		Deaths.		Death rates.	
	White.	Colored.	White.	Colored.	White.	Colored.
1901-1905 ¹	217,606	93,719	3,395	2,647	15.60	28.20
1906-1910 ¹	240,244	96,696	3,626	2,678	15.09	27.69
1911.....	251,409	98,159	3,739	2,564	14.87	26.12
1912.....	254,260	98,676	3,606	2,653	14.18	26.89
1913.....	255,153	98,144	3,568	2,438	13.98	24.84
1914.....	256,049	97,615	3,493	2,373	13.64	24.31
1915.....	258,940	98,809	3,918	2,587	15.13	26.18
1911-1915 ¹	255,162	98,281	3,665	2,523	14.36	25.67
1916.....	260,854	99,143	3,953	2,541	15.15	25.63

¹ Average for 5-year period.

Mortality by age periods.—An exhaustive statement of the distribution of deaths by age periods appears in the appendix.

In the first year of life, deaths per thousand reported births numbered 106, as compared with 110 in the preceding year. The death rate of white infants remained stationary, 82 per thousand. The death rate among colored infants fell from 173 to 159. (For details, see table 12, on p. 198.)

Deaths from the more important diseases.—The following table shows the most potent causes of death during the calendar year 1916, arranged in order of the gravity of their influence on the death rate, with corresponding figures for previous years. For further details with respect to these diseases, and for information with respect to all causes of death, reference should be made to the tables printed in the appendix.

Most potent causes of deaths in the District of Columbia during the calendar years 1915 and 1916, arranged in order of relative influence on the death rate in the latter year, and the annual averages for five-year periods 1906-1910 and 1911 to 1915.

Diseases.	Deaths.				Death rate per 100,000.			
	Annual average 1906-1910.	Annual average 1911-1915.	1915	1916	Annual average 1906-1910.	Annual average 1911-1915.	1915	1916
Organic heart disease.....	568	738	731	716	169	208	204	199
Pulmonary tuberculosis.....	749	687	698	646	222	194	195	179
Pneumonia (all forms).....	554	547	671	604	163	155	188	168
Bright's disease.....	442	545	613	588	131	154	171	163
Apoplexy.....	327	413	457	463	97	117	128	129
Malignant growths.....	276	339	392	387	82	96	110	108
Prematurity.....	215	204	204	181	64	58	57	50
Arteriosclerosis.....	84	120	154	179	25	34	43	50
Diarrhea, under 2 years.....	305	192	167	175	91	54	47	49
Endo and myo carditis.....	72	57	122	146	21	16	34	41
Senility.....	200	156	113	121	59	44	32	34
Grippe.....	96	71	114	112	28	20	32	31
Marasmus, under 1 year.....	62	82	68	78	18	23	19	22
Bronchitis (all forms).....	128	93	87	77	38	26	24	21
Nephritis, acute.....	59	68	77	75	18	19	22	20
Paresis.....	33	53	67	71	10	15	19	20
Diabetes.....	41	58	72	68	12	16	20	19
Diarrhea, over 2 years.....	72	63	58	64	21	18	16	18
Typhoid fever.....	119	59	42	46	35	17	12	13
Whooping cough.....	38	29	19	41	11	8	5	11

Reportable diseases.—The prevalence of the several reportable diseases in the District of Columbia, during the calendar year 1916, and their respective influences on the death rates, with figures for comparison with the preceding year, are shown below:

Reportable diseases in the District of Columbia: Cases, case rates, death, percentage of fatalities, and death rates during the calendar years 1915 and 1916.

Diseases.	Cases.		Case rate per 100,000.		Deaths.		Percentage of deaths to cases.		Death rate per 100,000.	
	1915	1916	1915	1916	1915	1916	1915	1916	1915	1916
Anterior poliomyelitis.....	6	39	2	11	2	6	33.3	15.4	0.5	1.6
Chicken pox.....	933	1,139	261	316	0	0				
Diphtheria.....	644	647	180	180	28	33	4.3	5.1	8.1	9.2
Epidemic cerebrospinal meningitis.....	5	6	1	2	5	4	100.0	66.6	1.7	1.1
Measles.....	1,940	2,642	542	734	5	6	0.3	0.2	1.4	1.7
Pellagra.....	22	16	6	4	16	9	72.7	56.3	4.5	2.5
Scarlet fever.....	794	530	222	147	8	6	1.0	1.1	2.2	1.6
Smallpox.....	15	4	4	1	0	0				
Tuberculosis (communicable).....	1,095	1,061	306	295	734	694	67.0	65.4	20.52	19.28
Typhoid fever.....	359	308	100	86	42	46	11.7	14.9	11.7	12.7
Whooping cough.....	674	2,224	188	618	19	41	2.8	1.8	5.3	11.4

Infantile paralysis.—The summer of 1916 was marked by the widespread prevalence of infantile paralysis, having its greatest intensity in and about New York City. The alarm naturally felt by the public under the conditions that prevailed was intensified by the general adoption of most severely drastic regulations to prevent the spread of the disease. The epidemic, however, ran its course without showing any evidence of having been modified in any way by the measures intended to prevent its spread.

In the District of Columbia 39 cases of infantile paralysis occurred, the first case having been reported on March 6, 1916, and the last on October 5, 1916, with 6 deaths. Of the reported cases, 10 were clearly contracted outside of the District of Columbia, and in two or more cases the patients were brought into the District in the acute stage of the disease. Of the reported cases, 6 occurred in houses where there were no children other than the patient; 1 in a house where there were 5 other children; 2 where there were 4 other children; 6 where there were 3 other children; 10 where there were 2 other children; and 14 where there was but 1 other child. Only once, however, was more than one case of infantile paralysis reported in the same house, and in that instance both patients seemed to have contracted the disease before leaving their home in New Jersey. There was clearly, therefore, no tendency for the disease to spread, notwithstanding the number of foci that existed in the District at one time or another. Why the disease did not spread in the District while it did spread in other not remote places, no one can tell. No new regulations were adopted and no unusual action taken to prevent the spread of the disease, except that in response to popular demand a clean-up campaign was conducted during the summer, and the board of education, contrary to the advice of the health officer, postponed the opening of the public schools for two weeks. The inefficacy, however, of clean-up campaigns as means for the prevention of the spread of the disease was abundantly demonstrated in

other communities where infantile paralysis existed in epidemic form, and all recorded experience has shown that outbreaks of infantile paralysis are not identified with school attendance.

The health officer regarded the simple and not burdensome regulations that had been in force in the District for the control of the disease for a number of years as being quite as well calculated to prevent the spread of the disease as were the rigid regulations and the drastic action of other communities. On August 26, 1916, however, the health officer did recommend to the commissioners that certain regulations be adopted, embodying the minimum requirements for the prevention of the spread of infantile paralysis, recommended by the conference of State and provincial health officers, acting in conjunction with the United States Public Health Service, with certain modifications advised by a conference of physicians practicing in the District of Columbia. This recommendation was, it was frankly stated at the time, based solely upon the high authority of the organizations named above, and was stated to be contrary to the best judgment of the health officer on the following grounds:

The proposed regulations may, in my judgment, by reason of their very rigor materially contribute to the spread of the disease. The grave hardship and the expense that will be imposed by these regulations upon any family in which a case of acute anterior poliomyelitis occurs will cause any conscientious physician to pause long before diagnosing any illness as poliomyelitis. The same causes will operate in the minds of parents, perhaps consciously and perhaps unconsciously, to deter them from calling in physicians in cases in which the ailment seems slight, at least in cases in which there is no paralysis, for fear the physician may diagnose the case as poliomyelitis and report it as such. And the likelihood that cases of this disease will in the absence of skilled medical attendance escape observation and become sources of infection can be understood when it is stated that one competent authority has recently said that any quarantine of acute anterior poliomyelitis based solely on the isolation of the patients showing paralytic symptoms was worthless; for probably no parent, and as a matter of fact but few physicians, are likely to recognize the disease and to assume the responsibility of reporting it as such when there are no symptoms of paralysis.

It may be argued that any decrease in the number of cases recognized and reported that may result from the promulgation of these regulations will be more than offset by the increased rigor of the quarantine imposed on such cases as are reported. The answer to this is that neither in New York City, Newark, nor Philadelphia, where rigorous regulations have been in force during the prevailing outbreaks of poliomyelitis, has there been any evidence that the disease has been diminished in frequency or in severity as the result. The outbreak in each city, so far as I can learn, has run and is running just such a course as outbreaks have run in previous years and in other places when and where no such measures for suppression were in effect.

Nor is the failure of suppressive measures to be wondered at in the light of our present knowledge. Where knowledge has run counter to expediency, knowledge seems to have suffered. Such is the case, for instance, with respect to the age limitations upon quarantine restrictions relating to persons exposed to infection. Commonly, but not always, persons over 16 years of age have been allowed much wider liberty than persons below that age. The basis for this action has been the fact that persons over 16 years of age do not so frequently show clinical symptoms of poliomyelitis as do those of the younger age group. It has been shown, however, that persons of the older age group can harbor the virus of poliomyelitis even though they themselves do not develop clinical symptoms, and under such circumstances the very fact that they do not develop clinical symptoms renders them graver sources of danger than is the younger age group. Persons in the younger age group develop clinical symptoms and are isolated; the older group is made up of persons who, even though infectious, develop no symptoms and continue about their usual duties, probably spreading infection from one to another in ever-widening circles, which only manifest themselves as occasionally some susceptible individual, adult, child, or infant, comes within the range of their influence. Only in this way can the spread of infection

be explained unless we admit the existence of some method of infection other than human contact.

It would appear to be out of this very carrier problem that the difficulty of suppressing an outbreak arises. For it seems likely that the first clinical cases observed in any community do not represent the first persons infected in that community, but are themselves the results of the presence in the community of a group of carriers of unknown size. And if such be the case, even though the community be at once protected by the absolute isolation of these first clinical cases, the larger body of infection, the carriers that preceded the clinical cases, is still active and increasing in size, and it is beyond the reach of official action.

Another point at which our knowledge concerning acute anterior poliomyelitis is sacrificed to expediency is with reference to the duration of the quarantine period. The quarantine period for the patient as fixed by the regulations recommended above is but six weeks, and the longest quarantine period of which I have knowledge is but eight weeks. Yet in an investigation to determine the duration of the infectivity of nine persons who had suffered from poliomyelitis, one was found to have mouth secretions infective in the seventh month, one to have secretions from mouth and from intestines infective in the sixth month, and four to have the secretions from the mouth or from the intestines or from both, infective in the fourth month. In other words, four out of the nine patients were infective for periods varying from three to seven months after the onset of the disease. Even the most ardent advocate of drastic regulations to prevent the spread of poliomyelitis would hardly advocate that all patients be isolated for a period as long as seven months, and yet there is no practicable way for measuring the period of infectivity in every case before the patient is released from quarantine, so as to determine whether patients released before the expiration of this period and possibly longer periods are infective.

Popular conceptions as to the communicability of acute anterior poliomyelitis, which appear to have been the basis for many of the regulations that have been promulgated, are hardly supported by established facts concerning the disease. This is shown by the relative infrequency with which one person in an infected household has contracted the disease from the infected person there, even in the absence of any precautions whatsoever. The absence of institutional and school outbreaks tends in the same direction. Healthy monkeys placed in cages occupied by animals infected by poliomyelitis do not contract the disease, nor is there any evidence that caretakers for such infected animals have ever contracted the disease or carried it home to their families. And in order artificially to inoculate the monkey with poliomyelitis procedures are necessary that are absolutely without parallel in the ordinary affairs of life.

It is best, it seems to me, that the public should not be taught to rely upon any regulations that may be promulgated by official authority. The public should understand that it is impossible to locate the sources from which poliomyelitis is spread, and that it is impossible to discover the channels through which infection is carried from any such sources, even from such as are known. The public should understand that the fight is a fight in the dark. The public should be made to understand, and each individual to feel, that the greatest safeguard against infection lies in personal cleanliness of the highest type, of person, of home, of store, of workshop, and of office. The habits of regarding every sick person as a possible source of infection is not sufficient, but the habit must be cultivated of regarding every person whatsoever as a source of infection, and of doing everything possible to avoid contact, direct or indirect, through insects or otherwise, when such contact is of such a nature as possibly to carry matter of any kind whatsoever, especially the mucous secretions, from any person, well or sick, on to the mucous membranes, or into the respiratory or digestive tracts, of the person who would defend himself against infection. Habits of this kind will do more to safeguard the individual against disease than any regulations that can possibly be put into effect by public authority.

After consultation with the corporation counsel the commissioners decided not to promulgate the regulations submitted to them by the health officer, and they were returned to the health officer by the commissioners with the suggestion that he formulate such regulations as in his judgment should be adopted. As the regulations already in force seemed to meet the situation as well as any others the health officer might devise, no new draft of regulations was submitted. All operations of the health department looking toward the prevention

of the spread of infantile paralysis were conducted, therefore, under the simple regulations that had been in force for some time. Results fully justified the judgment of the health officer with respect to the situation, and on May 3, 1917, the Conference of State and Provincial Boards of Health, composed of men who in the preceding year most actively worked for the promulgation and enforcement of regulations of the most drastic type, adopted a report of its committee on method for the control of infantile paralysis, which in every way sustained the action taken by the health officer of the District during the preceding year.

It was generally believed that the District might suffer from a severe outbreak of infantile paralysis during the summer of 1917, but up to the present writing (Oct. 12, 1917) no such outbreak has occurred. The people of the District should not, however, accept this as evidence that the community will escape unscathed, for there still remains the not remote likelihood that the disease may reappear in the summer of 1918. Unfortunately, too, sanitary authorities are at present no better able to cope with the malady than they were during the outbreak of 1916; and while treatment is more intelligent it is yet unfortunately not such as will enable the medical profession to give a hopeful prognosis with respect to the severer types of the disease, particularly in so far as relates to subsequent freedom from deformity and disability.

In connection with the efforts of the health department to do whatever might be possible to prevent the spread of infantile paralysis, Dr. Arthur L. Hunt, a medical inspector in the contagious-disease service, contracted the disease and died. It is hoped that the Government will in some substantial way recognize this sacrifice to duty and the widow's loss.

Deaths at the District Workhouse, Occoquan, Va.—Nine deaths occurred at the District workhouse, at Occoquan, Va., during the calendar year 1916, from the following causes: Pulmonary tuberculosis, 2; acute nephritis, 2; organic heart disease, 5. The average daily population in this institution was 644. The death rate per 1,000 population was, therefore, 13.98.

VITAL STATISTICS, JANUARY TO JUNE, INCLUSIVE, 1917.

A statement showing cases of reportable illness and reported deaths during the first half of the calendar year 1917 appears on page 88.

DISPOSAL OF THE DEAD.

The ultimate disposition of the dead in the District of Columbia during the calendar year 1916 is shown in the following table:

Disposal of dead bodies, exclusive of bodies of stillborn infants, coming under the supervision of the health department during the calendar year 1916.

Method of disposal.	Died in District of Columbia.	Died outside of District of Columbia and brought in for disposal.	Total.
Sent out of District of Columbia for disposal:			
To Arlington National Cemetery.....	355	29	384
To other places.....	1,342	48	1,390
Total.....	1,697	77	1,774
Cremated:			
Lee's crematory.....	39	14	53
District crematory.....	259	13	272
Total.....	298	27	325
Buried in District of Columbia.....	4,402	517	4,919
Anatomical board.....	97		97
Total.....	4,499	517	5,016
Total disposed of.....	6,494	621	7,115

Cremation.—The following table shows the progress of cremations in the District of Columbia since the calendar year 1900:

Progress of cremation in District of Columbia, calendar years 1901–1916, inclusive.

Calendar year.	Total deaths.	Bodies cremated. ¹			Percent- age of crema- tions.
		Lee's crema- tory.	District of Co- lumbia crema- tory.	Total.	
1901.....	6,050	27		27	0.45
1902.....	5,788	21		21	.36
1903.....	5,944	41		41	.69
1904.....	6,221	20		20	.32
1905.....	6,205	43		43	.69
1906.....	6,316	41		41	.65
1907.....	6,343	50		50	.79
1908.....	6,136	54	2 45	99	1.61
1909.....	6,216	50	316	366	5.88
1910.....	6,511	48	334	382	5.87
1911.....	6,303	52	319	371	5.89
1912.....	6,259	52	323	375	5.99
1913.....	6,006	57	295	352	5.86
1914.....	5,866	59	230	289	4.93
1915.....	6,505	67	298	365	5.61
1916.....	6,494	53	272	325	5.00
Total.....	99,163	735	2,432	3,167	.....

¹ Stillbirths excluded.

² Began to operate October, 1908.

COMMUNICABLE DISEASES OF ANIMALS.

Rabies.—The extent to which rabies prevailed in the District of Columbia during the calendar year 1916 is shown in the following table, with corresponding figures for the preceding year:

Rabies in the District of Columbia during the calendar year 1916, and corresponding data for the preceding year.

	Calendar year.	
	1915	1916
Dogs reported to the health department as rabid or suspected of being rabid.....	19	21
Other animals reported as rabid or suspected of being rabid.....	5	4
Instances in which diagnosis of rabies was confirmed by post-mortem findings of the Bureau of Animal Industry (3 dogs).....	9	3
Persons bitten by dogs, rabid or suspected of being rabid.....	17	14
Domestic animals bitten by dogs, rabid or suspected of being rabid.....	5	
Persons bitten by dogs and cats and other animals known to be rabid, as shown by post-mortem findings of the Bureau of Animal Industry (2 dogs).....	9	2
Pasteur treatment administered to individuals during the calendar year (reports received from the Hygienic Laboratory, Public Health Service).....	122	135

¹ This includes individuals from outside of the District of Columbia as follows: 1915, 13; 1916, 28.

In view of the prevalence of rabies in the District of Columbia the commissioners on July 19, 1916, issued a proclamation requiring the muzzling of all dogs running at large. This proclamation became effective on July 10, 1916, and continued for a period of one year.

PART II.

ADMINISTRATION.

SUPERVISION.

There has been no change in the organization and general methods of procedure in the health department during the past year. On April 9, 1917, Harry C. McLean, who had served as chief clerk and deputy health officer since October 1, 1894, was given indefinite leave of absence on account of illness, and Arthur G. Cole, who had been connected with the department since July 21, 1906, was appointed to succeed him. Mr. McLean died on June 2, 1917, after 23 years of faithful service.

BUREAU OF PREVENTABLE DISEASES.

Contagious-disease service.—The following table shows in a general way the amount and character of the work within the purview of the contagious-disease service during the fiscal year 1917.

Reportable diseases in the District of Columbia: Cases reported during the fiscal years 1916 and 1917.

	Fiscal year 1916.	Fiscal year 1917.
Anterior poliomyelitis.....	7	37
Chicken pox.....	1,044	969
Diphtheria.....	861	613
Epidemic cerebrospinal meningitis.....	7	20
Leprosy.....		
Measles.....	2,450	3,533
Pellagra.....	19	14
Scarlet fever.....	478	490
Smallpox.....	8	6
Tuberculosis.....	1,045	984
Typhoid fever.....	362	292
Whooping cough.....	1,131	2,125
Total.....	7,412	9,083

Smallpox hospital and quarantine station.—The smallpox hospital cared for 6 patients during the fiscal year 1917. It was in active service on 58 days, the total number of patient-days' service rendered being 73. The average number of patients in the hospital each day during the period when the hospital was in active operation was 1.2, and the average for the entire year was 0.2. The average stay of each patient in the hospital was 12.2 days.

The quarantine station cared for six persons during the year. It was in active service 31 days, the total number of inmate-days being 40. During the time when the quarantine station was in active operation, the average number of inmates per day was 1.5. The average number of inmates per day calculated on the entire year was 0.2. The average stay of an inmate in the institution was 6.7 days.

During the year the old wooden porches at the smallpox hospital were replaced by cement porches, and an incinerator was installed at the hospital for the destruction of the refuse from that institution and from the quarantine station.

Ambulance service.—The ambulance for patients suffering from minor contagious diseases transported during the year 464 patients, on 238 days. Patients suffering from smallpox were removed in the ambulance provided for that purpose or in some other vehicle, not in the ambulance for the transportation of patients suffering from minor communicable diseases.

Organization.—The organization and administration of the contagious-disease service has remained as heretofore reported.

Cost of the contagious-disease service.—A statement of the cost of the contagious-disease service appears on pages 69, 74. The specific appropriation made by Congress for personal services in connection with this work proved inadequate last year, as in previous years, and it became necessary to draw on the emergency fund to protect the District from communicable diseases.

Isolating wards at Garfield Memorial and Providence Hospitals.—The following statement shows the service rendered by the isolating wards at Garfield Memorial and Providence Hospitals during the fiscal year 1917.

Isolating wards, Garfield Memorial and Providence Hospitals: Service and expense during fiscal year 1917.

Name of institution.	Pay-patient days.	Free-patient days.	Total patient days.	Total appropriated by Government.	Paid by District for year.	Cost to District per free-patient per day.	Amount received from pay patients.
Garfield Memorial Hospital.....	2,464	6,208	8,672	\$7,000.00	\$7,000.00	\$1.13	\$4,039.40
Providence Hospital.....	1,142	2,984	4,126	5,000.00	5,000.00	1.68	(1)

1 No account of money received from pay patients was rendered by Providence Hospital.

A statement showing the nature of the cases treated in the wards named above appears on page 40.

In determining the cost to the Government of the isolating wards at Garfield Memorial Hospital during the fiscal year 1917 and during previous fiscal years, allowance must be made for the fact that by the deficiency act of April 17, 1917, \$15,000 was appropriated to reimburse the hospital for money expended by it for the maintenance of free patients over and above the number paid for through appropriations. Much needed improvements at the isolating wards of Garfield Memorial Hospital were made during the year by means of the money appropriated for that purpose in the sundry civil bill approved July 1, 1916, \$5,000, and this, too, must be taken into consideration in determining the cost of these wards to the Government.

Disinfecting service.—During the fiscal year 1917, 1,794 premises were disinfected, and 1,486 articles exposed to infection on such premises or in some other way were disinfected at the disinfecting station. The general tendency of the department has been to diminish the amount of disinfection done after communicable diseases, and up to the present time no discoverable harm has resulted. The disinfecting service cost during the year \$5,421.51.

Statements showing in somewhat more detail the nature of the work done by the disinfecting service and the cost of the service appear on pages 74, 75, respectively.

Under the provisions of the regulations for the control of disinfecting and fumigating, promulgated by the commissioners under date of April 2, 1915, five permits have been issued during the fiscal year 1917 for the fumigation of premises by the use of cyanide gas. The use of cyanide gas as authorized by these permits was for the destruction of moths and bedbugs; it had no relation to the prevention of communicable diseases. No additional persons were registered during the year as engaged commercially in the business of fumigating and disinfecting, the number of persons now on the register being two.

Public crematorium.—During the fiscal year 1917, 550 bodies were cremated—112 adults, 181 infants, and 257 stillborn babies. The total cost of maintenance was \$1,630.89. In 38 cases bodies were cremated for persons able to pay for such service, and fees amounting to \$975 were collected. The net cost to the Government of maintaining the crematory during the year was therefore \$655.89.

During the year concrete bases were placed under the pillars in the front of the crematorium and cement porches were built.

The progress of cremation in the District of Columbia since 1900, as a substitute for earth burial, is shown in a table appearing on page 16 of this report.

Bacteriological laboratory.—Specimens sent into the bacteriological laboratory for diagnosis during the fiscal year 1917 numbered 14,885. A statement of the character of these specimens and of the results of the examination appears on page 57 of this report, in the report of the bacteriologist.

The cost of maintaining the bacteriological laboratory during the year was \$6,105.37.

One of the most important undertakings of the bacteriological laboratory during the year was an examination into the efficiency of so-called bubble fountains as a means for preventing the spread of communicable diseases. None of the fountains examined could be classed as sanitary, and some of them were surprisingly bad. The findings of the laboratory in this respect were confirmatory of the findings of Dorothy F. Pettibone, Franklin B. Bogart, and Paul F. Clark, of the University of Wisconsin,¹ as the result of certain investigations undertaken by them but unknown to this department when its investigation was made. These findings have been confirmed since by H. A. Whitaker, of the University of Minnesota.² It may be stated generally, therefore, that the bubble fountains now on the market constitute but a slight improvement, if any, over the common drinking cup.

The provision made by Congress for the appointment of a serologist and the establishment and maintenance of a serological laboratory, by the appropriation act of March 3, 1917, will materially add to the efficiency of the health department. It is to be regretted that the authority granted by Congress by that act for the use of the building formerly occupied by the Central Dispensary and Emergency Hospital became unavailable, the building being required by the Federal Government for emergency use in connection with service arising out of the war.

MEDICAL INSPECTION OF PUBLIC SCHOOLS.

The District appropriation act of September 1, 1916, authorized the appointment of a chief medical and sanitary inspector, who should, under the direction of the health officer, give his whole time to and exercise direction and control of the medical inspection and sanitary conditions of the public schools of the District of Columbia. On October 19, 1916, Dr. Joseph A. Murphy was appointed to fill this position. While considerable work was done, the service may be said to have been still in a developmental state at the close of the school year. A report covering the operations of this service will be printed, it is understood, at a more or less length, in the report of the board of education.

¹ The Bacteriology of the Bubble Fountain, by Dorothy F. Pettibone, Franklin B. Bogart and Paul F. Clark, Laboratory of Medical Bacteriology, The University of Wisconsin, presented at the Seventeenth Annual Meeting of the Society of American Bacteriologists, Urbana, Ill., Dec. 29, 1915, and published in *The Journal of Bacteriology*, Vol. 1, No. 5, September, 1916.

² Drinking Fountains, Investigation of Fountains at the University of Minnesota, by H. A. Whitaker, Director, Division of Sanitation, Minnesota State Board of Health, published in the Public Health Reports, United States Public Health Service, May 11, 1917.

Possibly the most important action taken with respect to the health of the children of the public schools of the District during the year, which tended also to protect the health of children attending private schools, was the promulgation by the commissioners on September 8, 1916, of an amendment to the regulations to prevent the spread of tuberculosis in the District of Columbia, providing for the exclusion from school of all teachers, pupils, janitors, and helpers suffering from laryngeal or pulmonary tuberculosis or from tuberculosis in any other communicable form. This regulation is printed at length on page —.

The immediate cause of the promulgation of the regulation excluding tuberculous persons from schools was the known existence in the District of 98 persons of school age who were registered as suffering from tuberculosis in communicable forms. Promptly after the promulgation of the regulation excluding such pupils from school, reports of recoveries of such patients began to be received. The considerable number of such reports received, coupled with the fact that in some cases even the registration of the pupil as a tuberculous patient had apparently been forgotten by the family and by the attending physician prior to the promulgation of the regulations, suggests very strongly that a part of these supposed recoveries represented simply correction of erroneous diagnoses in the first place. Other cases may have represented, of course, true recoveries. Details concerning these pupils appear in the following statement:

	White.	Colored.	Total.
Pupils registered as having pulmonary or other communicable forms of tuberculosis.....	32	66	98
Recoveries reported of pupils excluded in the group described in the preceding figures.....	19	16	35
Percentage of recoveries reported.....	59.3	23.6	35.7

As a result of the promulgation of the regulations referred to above, a school for white pupils suffering from tuberculosis was opened at the Hamilton School, Bladensburg Road, and a school for colored pupils was opened at the Harrison School, Thirteenth Street, between V and W Streets. It is hoped that ultimately proper school accommodations for such pupils will be provided, to replace the accommodations that must now be employed, however creditable such accommodations may be to the ability of those having the matter in charge to improvise.

BUREAU OF FOOD INSPECTION.

The organization and general method of procedure of the food-inspection service underwent no change during the fiscal year 1916. On October 16, 1916, Reid R. Ashworth, D. V. S., who had been connected with the food-inspection service since July 26, 1902, was appointed chief food inspector. Mr. R. S. Wilson, who had been serving as chief food inspector, remained in the service as assistant chief food inspector.

Inspection of perishable foodstuffs.—The number and kinds of food producing and vending establishments in the District of Columbia, exclusive of dairy farms and dairies, during the fiscal year 1917,

is shown in the following table, with corresponding data for the preceding year:

Food producing and vending establishments in the District of Columbia, number and kind on register during fiscal years 1916 and 1917, with data relative thereto.

	Registered at beginning of year.	Registered during year.	Abandoned or duplicated.	Registered at close of year.	Total.	Average per annum per place.	Inspections per inspector per day worked.
Total:							
1916.....	5,470	745	383	5,832	44,478	7.62	33.57
1917.....	5,832	754	2,993	¹ 3,593	42,356	11.79	24.81
Commission houses:							
1916.....	72	3	2	73	16,110	220.68	12.16
1917.....	73	8		81	12,122	149.65	7.10
Groceries:							
1916.....	2,557	490	300	2,747	12,949	4.71	9.77
1917.....	2,747	508	1,447	¹ 1,808	10,313	5.70	6.04
Markets:							
1916.....	10			10	2,645	264.50	2.00
1917.....	10			10	2,591	259.10	1.32
Hucksters:							
1916.....	679	3		682	6,963	10.21	5.25
1917.....	682		175	¹ 507	6,089	12.01	3.37
Bakeries:							
1916.....	91	12	6	97	117	1.21	.09
1917.....	97	2	31	¹ 68	178	2.62	.19
Confectioneries:							
1916.....	458	135	27	566	804	1.42	.91
1917.....	566	106	171	¹ 501	680	1.36	.40
Restaurants and lunch rooms:							
1916.....	811	86	33	864	3,951	4.57	2.98
1917.....	864	102	453	¹ 513	4,111	8.01	2.41
Miscellaneous:							
1916.....	792	16	15	793	939	1.18	.71
1917.....	793	28	716	¹ 105	866	8.25	.71

¹ The apparent decrease in the number of such establishments in the District at the close of the year is the result merely of the cancellation on the records of the health department of establishments which, by better methods of administration adopted during the year, were found to have discontinued business although still carried on the books of the department. As these establishments were stricken from the registers of the department from time to time during the year, the figures purporting to show the average number of inspections per annum for each such establishment and to show the inspections per inspector per day worked at each of the places named must be accepted as an index of the work done rather than as an accurate statement of it.

One hundred and twenty-one prosecutions were instituted during the fiscal year against the proprietors or managers of grocery stores, lunch rooms, and similar establishments, for unclean conditions of premises, sales of unwholesome food, or other violations of regulations, and a considerable number were pending when the year began. One hundred and seventeen such cases were disposed of during this period, as follows: Nolle prosequi was entered in 3 cases, 5 were dismissed, personal bonds were accepted in 10 cases, fines aggregating \$216 were imposed in 32 cases, and forfeitures amounting to \$368 were accepted in 67 cases. One hundred and ten cases were still pending at the close of the year.

A statement of the amount and kind of foodstuffs condemned during the year appears on pages 64-66, of this report.

The cost of the inspection along the lines suggested by the preceding table and paragraphs was approximately \$7,760.23. Details of this cost appear in the table printed on pages 69, 73.

Inspection of slaughterhouses.—Six of the small slaughterhouses heretofore under inspection by the health department discontinued business during the year, the proprietors now doing such slaughtering

as their respective businesses require in some of the larger establishments, where better facilities are provided. There remained at the end of the year 15 slaughterhouses engaged essentially in local trade, and therefore under inspection by the health department only. The larger establishments, engaged in interstate business, are of course subject to inspection both by the Bureau of Animal Industry United States Department of Agriculture, and by the health department of the District, but in practice inspection at such establishments is left substantially to the Federal bureau.

At the establishments under inspection by the health department there were examined during the year, at time of slaughter, 80 cattle, 357 sheep, 610 calves, none of which were found condemnable.

Supervision of dairy farms.—A statement showing in detail the amount and kind of work done by the department during the fiscal year 1917, with respect to dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia, appears in the following table. Considerable quantities of milk and cream were brought into the District during the year from unlicensed farms, but by legal technicalities the health department was prevented from interfering with its importation.

Dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia during the fiscal year 1917, number and distribution of, with certain data pertaining thereto, and corresponding figures for the preceding year.

Dairy farms registered.				Cattle.				Tuberculin tested.			
	Begin- ning of year.	During year.		Close of year.	Begin- ning of year.	During year.	Close of year.	Total.	Passed.	Re- acted.	Suspi- cious.
		Regis- tered.	Can- celed.								
Total:											
1916.....	1,161	395	320	1,236	18,400	2,644	21,044	15,199	14,583	533	83
1917.....	1,236	184	281	1,139	21,044	1,091	22,135	11,347	10,922	367	58
District of Colum- bia:											
1916.....	33	7	9	31	508	103	611	1,184	1,171	11	2
1917.....	31	6	12	25	611	194	417	44	44	0	0
Maryland:											
1916.....	721	198	172	747	8,748	1,844	10,592	5,747	5,486	249	12
1917.....	747	95	168	674	10,592	760	9,832	3,958	3,767	173	18
Virginia:											
1916.....	330	137	90	427	8,065	1,031	9,096	7,855	7,526	262	67
1917.....	427	80	74	433	9,096	2,584	11,680	7,288	7,054	194	40
Pennsylvania:											
1916.....	6	42	23	25	240	279	519	313	307	6	.....
1917.....	25	1	25	1	519	519	.....	.....	.....	.....	.....
New York:											
1916.....	16	.....	16	.....	690	690	.....	.....	.....	.....	.....
1917.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ohio:											
1916.....	.....	8	8	.....	.....	.....	.....	.....	.....	.....	.....
1917.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
West Virginia:											
1916.....	5	3	2	6	149	77	226	100	93	5	2
1917.....	6	2	2	6	226	20	206	57	57	.....	.....

Dairy farms on which milk and cream were lawfully produced for sale in the District of Columbia during the fiscal year 1917, number and distribution of, with certain data pertaining thereto, and corresponding figures for the preceding year.

INSPECTIONS.¹

	Inspections of farms.	Average frequency of inspections of each farm during year.	Average number of farms inspected per inspector per day worked.	Inspections of cattle.	Average frequency of inspection of each animal.
Total:					
1916.....	4,183	3.38	2.55	66,135	3.14
1917.....	4,423	3.77	2.87	67,810	3.06
District of Columbia:					
1916.....	368	11.15	.22	3,741	6.12
1917.....	406	16.24	.26	3,949	9.47
Maryland:					
1916.....	2,296	3.07	1.40	35,785	3.38
1917.....	2,372	3.36	1.53	32,176	3.27
Virginia:					
1916.....	1,416	3.31	.86	24,947	2.74
1917.....	1,584	3.56	1.02	30,504	2.61
Pennsylvania:					
1916.....	50	2.00	.003	694	1.34
1917.....	37	1.42	.024	478	.92
Ohio:					
1916.....	33	1.32	.002	290	1.00
1917.....					
West Virginia:					
1916.....	20	3.33	.001	678	3.00
1917.....	24	4.00	.015	703	3.41

¹ The apparent decrease in the number of dairy farms registered at the close of the year, as compared with the number registered at the beginning, is the result merely of the cancellation on the records of the health department of farms which had discontinued business at longer or shorter periods prior to the dates of cancellation. It does not represent an actual increase in the number of dairy farms shipping milk into the District of Columbia during the year.

Supervision of dairies and milk shops.—The following table shows the number and the distribution of the dairies and milk shops lawfully supplying milk in and for the District of Columbia during the fiscal year 1917, and the frequency of inspections:

Dairies in and for the District of Columbia during the fiscal year 1917, number and distribution of, with certain data pertaining thereto, and corresponding figures for the previous year.

	Licensed at beginning of the year.	Applications received.	Permits issued.	Permits surrendered.	Applications rejected or withdrawn.	Licensed at close of year.	Inspections during year.	Average number of inspections of each dairy during year.	Average number of dairies inspected per inspector per day worked. ¹
Total:									
1916.....	62	4	4	16	1	49	512	15.51	1.82
1917.....	49	3	3	9		43	730	16.98	2.64
District of Columbia:									
1916.....	60	4	4	15	1	48	508	15.87	1.83
1917.....	48	3	3	9		42	725	17.26	2.69
Maryland:									
1916.....	1			1			1	1.00	
1917.....									
Virginia:									
1916.....	1					1	3	3.00	
1917.....	1					1	5	5.00	

¹ The inspector assigned to this work has other duties to perform also.

The cost of this service can not be segregated from the cost of other branches of the food-inspection service with sufficient accuracy to justify any comments thereon.

Chemical and bacteriological control of the milk supply.—During the fiscal year 1917 there were collected 8,315 samples of milk and 348 samples of cream for chemical analysis in the ordinary course of the milk-control service of the health department. Details as to the results appear in the following table and in the report of the chemist, printed in the appendix.

Milk and cream in the District of Columbia: Chemical examinations during the fiscal year 1917, with corresponding figures for previous years.

Fiscal year.	Milk (8,315 samples) in 1917 containing—			Cream (348 samples) in 1917 containing—	
	Less than 3.5 per cent fat.	3 per cent fat and less.	Added water.	Less than 20 per cent fat.	18 per cent fat and less.
	<i>Per cent.</i> ¹	<i>Per cent.</i> ¹	<i>Per cent.</i> ¹	<i>Per cent.</i> ¹	<i>Per cent.</i> ¹
1912.....	3.44	1.19	1.20	70.07	20.92
1913.....	4.89	.45	.63	64.92	12.54
1914.....	4.69	.44	.97	48.27	17.91
1915.....	7.71	3.03	.76	57.73	17.16
1916.....	8.52	.83	1.22	61.39	22.47
1917.....	10.63	.69	1.50	64.09	28.44

¹ Per cent on basis of all samples of milk or of cream, respectively, examined.

The increase in the amount of low-grade milk and cream coming into the District, and in the frequency with which milk is watered, are probably due to the high cost of producing milk and to the high price for which it was sold during the year. The greater the price of milk, the greater is the temptation to water and to skim it, since the returns thus obtained for every gallon of water added to the milk or cream abstracted are greater. Another factor in leading to a deterioration in the milk supply of the District is probably the difficulty that has been experienced by the health department in enforcing the laws and regulations relating to milk. Action under the Federal Food and Drugs Act of June 30, 1906, has been very seriously interfered with by reason of the pendency in the Supreme Court of the United States of a case involving the interpretation of that law in so far as relates to the District of Columbia, and action under the law passed in 1895 to regulate the milk supply of the District of Columbia has been practically prevented by reason of a case pending in the court of appeals of the District of Columbia. The result has been that much milk and cream has been brought into the District of Columbia from unknown sources, and with a history that the vendors of such milk and cream prefer to conceal rather than to disclose. An effort to meet this situation through the modification of a system in force for the grading of milk was made, but with only partial success.

Bacteriological examinations were made of 1,538 samples of milk and cream during the fiscal year 1917, with the results shown in the table following.

Milk and cream in the District of Columbia: Bacteriological examinations of 1,538 samples during the fiscal year 1917.

NUMBER OF SPECIMENS.

	Bacteria per cubic centimeter.				Colon group.	
	Under 10,000.	10,000 to 100,000.	100,000 to 1,000,000.	1,000,000 and over.	Present.	Absent.
1. Raw milk:						
A. From containers arriving by trolley or train.....			2	7	8	1
B. From containers as distributed to consumers.....	71	342	284	140	293	544
2. Heated milk sold as pasteurized:						
A. From containers arriving by trolley or train.....						
B. From containers as distributed to consumers.....	225	270	116	81	179	513

PERCENTAGE OF SPECIMENS.

1. Raw milk:						
A. From containers arriving by trolley or train.....			22.22	77.78	88.89	11.11
B. From containers as distributed to consumers.....	8.48	40.86	33.93	16.73	35	65
2. Heated milk sold as pasteurized:						
A. From containers arriving by trolley car or train.....						
B. From containers as distributed to consumers.....	32.51	39.02	16.77	11.70	25.87	74.13

Grading of milk.—In order that the milk grades published by the health department might give proper weight to the practice adopted by some milk dealers of bringing milk into the District from unlicensed and therefore unscored farms, the modification described below of the method of grading previously adopted was made.

On every day on which any distributor of milk has, to the knowledge of the health department, received milk from any farm the proprietor of which has not been authorized to ship milk into the District of Columbia for sale, either by a formal permit issued to him for that purpose or by reason of having filed an application for such a permit, an entry of zero will be made upon the record of such distributor, both under the heading "dairy farm score" and the heading "score of cattle." The number of cows on the farm or farms from which such milk comes will be determined upon the hypothesis that each such cow engaged yields, in the case of milk, 2 gallons, and in the case of cream, four-tenths of a gallon; and the number of cows thus determined will be entered on the dealer's record and used in computing the grade of his milk.

This amendment to the method of grading will become effective on and after April 16, 1917.

At the close of the period covered by this report too a short a time has elapsed to permit judgment to be passed on the result.

Chemical control of foods other than milk and cream.—Of foods other than milk and cream 311 samples were examined chemically during the fiscal year 1917. Of these 57 were found adulterated or misbranded. A detailed statement concerning this work appears in the report of the chemist, on pages 49, 50 of this report.

Chemical control of drugs.—One hundred and eighty-seven samples of drugs were examined during the year, including tincture of iodine, chloroform liniment, solution of magnesium citrate, mercurial ointment, zinc ointment, elixir of iron, quinine, and strychnine. The results of these analyses are stated in the report of the chemist on pages 50, 51.

BACTERIOLOGICAL LABORATORY.

The work of this laboratory has been discussed in connection with the work of the bureau of preventable diseases and the bureau of food inspection. See pages 20-26.

CHEMICAL LABORATORY.

Much of the work of the chemical laboratory has been discussed in connection with the chemical control of the milk supply and of foods other than milk and of drugs. The details of such work appear in the report of the chemist on pages 47-53 of this report. So also does a discussion of the work done for the police department, the coroner, and the purchasing officer.

BUREAU OF SANITARY INSPECTION.

There was no change in the organization and administration of the bureau of sanitary inspection during the year.

General nuisance inspection.—Complaints acted on during the year numbered 8,852. Such action required 12,161 inspections and 16,385 reinspections. Inspections not based on complaints numbered 11,639. Official calls, other than for purposes of inspection and for purpose of the service of notices for inspectors in other districts, numbered 2,466. The total number of official visits made by the sanitary inspection force during the year was therefore approximately 42,651. Violations of laws and regulations for the prevention and abatement of nuisances were reported in 11,885 instances, and compliance was procured in 11,366 of such instances prior to close of the the fiscal year. The remaining cases, 519, were pending at the close of the year.

Informations were filed in the police court in 233 instances, charging violations of the sanitary laws and regulations. Fines were imposed in 6 cases, collateral was forfeited in 1 case, personal bonds were taken in 33 cases, and a plea of nolle prosequi was entered in 146 cases, leaving 47 cases pending at the close of the year. Fines and collaterals collected amounted to \$64.

Under the assessment system, 217 notices were served to procure the abatement of nuisances on property belonging to nonresident owners. Such nuisances were abated by the owners in all but 19 cases, and in these 19 cases the District government caused the necessary work to be done and the cost, \$125.30, to be assessed against the property.

Sanitary inspection of places of employment.—The inspection of printing offices reported in the preceding annual report of this department was continued during the year, and the systematic inspection of bakeries and the kitchens of lunch rooms, restaurants, and other similar places, in the interest of the health of the persons employed therein, was begun. In the inspection of these establishments there has been a very general spirit of cooperation with the department on the part of the owners and proprietors.

Registration of stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage disposal systems.—The following table shows the number of stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems registered and under

observation by the health department during the fiscal year 1917, the frequency with which such places have been inspected, and, in a general way, the results.

Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems registered during the fiscal year 1917.

	Stables.	Barber shops.	Laundries.	Privies.	Fowl and pigeon houses.	Sewage disposals.
Registered at beginning of year	2,186	852	3,817	2,678	1,377	126
Registered during the year	58	67	205	194	114	8
Abandoned during the year	859	235	1,504	127	3	19
On the register at the close of year	1,385	684	2,518	2,733	1,488	115
Number of inspections during the year	1,243	1,085	1,460	1,177	(1)	171
Average frequency of inspection	0.8	1.5	0.5	0.4	(1)	1.5
Number of nuisances found	177	(1)	(1)	346	342	(1)

¹ Data not available.

Smoke inspection.—The following table shows the work done in the smoke-inspection service during the fiscal year 1917, with corresponding figures for the preceding year:

Smoke inspections during the fiscal years 1916 and 1917.

	1916	1917
Observations	8,173	8,530
Violations of law reported	1,286	1,466
Cases referred to corporation counsel	42	30
Cases of fines and forfeitures	21	27
Cases of personal bonds taken	12	4
Cases nolle prossed	5	3
Cases acquitted	0	0
Cases pending	6	2
Amounts of fines and forfeitures	\$260	\$280
Plants under observation		381
Number of inspections of plants		341
Reports of investigation, complaints, and letters		186

Enforcement of the weed law.—The practice heretofore adopted of devoting to the enforcement of the weed law such time and attention as can be spared from other more important duties devolving on the sanitary inspection service has been continued during the year. The efficient enforcement of this law would require a substantial increase in the corps of inspectors in the sanitary service during the summer months, and even then a substantial enforcement of the law will be difficult so long as it continues in its present drastic form.

Private hospitals and asylums.—During the year 1917, in view of the death of the proprietor, the license for one hospital for animals was transferred. One license to maintain a hospital for animals was issued. One license to maintain a hospital for animals and two licenses for hospitals for human beings were cancelled.

Special duties of the sanitary inspection force.—The efficiency of the sanitary inspection service as such has been diminished by the time it has been called upon to devote to work properly belonging to the contagious disease service. This has been found necessary because of the limitation imposed by law upon the amount that can be expended annually for personal services for the enforcement of the various

laws relating to contagious diseases. The sanitary inspection service has been required, too, to assist in the enforcement of the law relating to the registration of births, but the work done in this connection consumed relatively little time—7½ working days during the year.

Cost of bureau of sanitary inspection.—The approximate cost of the sanitary inspection service, exclusive of the smoke inspection service, was \$15,306.54. The approximate cost of the smoke inspection service was \$1,253.37. Details are printed on pages 69, 72.

EIGHT-HOUR LAW FOR FEMALES.

Establishments coming within the purview of the eight-hour law for women during the year numbered 1,735, and in the execution of the law 11,140 inspections of such establishments were made. Complaints were received in 109 cases, and inspections based on such complaints numbered 112.

Nine violations of the eight-hour law for women were referred to the corporation counsel for prosecution, and 6 such cases were pending at the beginning of the year. Fines were imposed in 9 cases, amounting to \$160; in 1 case personal bonds were taken; in 3 cases a plea of nolle prosequi was entered; 1 case was dismissed; and 1 case was pending at the close of the year.

The cost of enforcing the eight-hour law for women during the year amounted to \$4,574.67, exclusive of the undistributed cost of supervision.

THE POUND SERVICE.

The total number of animals that passed through the pound during the fiscal year 1917 was 7,013, of which 3,029 were dogs, 3,984 were cats, 3 horses, and 1 cow.

Of the dogs, 1,658 were captured while running at large in violation of law, and the remainder were surrendered for destruction or quarantine by their owners or by persons having custody of them. Of the dogs captured while unlawfully running at large, 130 were tagged but not muzzled, 8 muzzled but not tagged, and 1,520 neither tagged nor muzzled. Impounded dogs were disposed of as follows: Killed, 2,464; redeemed, 339; sold, 220; returned after quarantine, 11; escaped, 1.

There was collected through the activities of the pound service, during the fiscal year 1917, \$941, as follows: Fees, \$688; sales, \$251.50; reimbursement for food, \$1.50. The total cost of maintaining and operating the pound service during the fiscal year 1917 was \$5,379.38; the net cost of the service was therefore \$4,438.38.

Further details as to the work of the pound service appear in the tables on page 66.

By reason of the continued prevalence of rabies in the District of Columbia, the commissioners on July 19, 1916, again issued a proclamation requiring the muzzling of all dogs running at large, this requirement to be effective until July 10, 1917.

¹ Includes one-fifth time of chief clerk, who has supervision of this service.

BUREAU OF ADMINISTRATION.

No change was made in the organization or methods of administration of the bureau of administration during the year. On April 9, 1917, Harry C. McLean, who had been chief clerk and deputy health officer since October 1, 1894, was granted indefinite leave of absence because of illness, and Arthur G. Cole, who had been in the employ of the department since July 2, 1906, was promoted to fill the office.

Correspondence and files.—The health department received 10,664 letters and 4,147 oral complaints during the fiscal year 1917. Letters sent out by the department numbered 10,601. Special reports filed by employees numbered 1,414.

The cost of the bureau of administration during the year was approximately \$10,924.68.

BUREAU OF VITAL STATISTICS.

There has been no change in the organization or method of administration of the work of the bureau of vital statistics during the year.

Registration of births, stillbirths, and deaths.—Deaths in the District of Columbia recorded by the bureau of vital statistics during the year numbered 6,613. Deaths occurring outside of the District but recorded in the District by reason of the burial of the remains in the District numbered 618. Birth certificates recorded numbered 7,231, and stillbirth certificates 432.

Transcripts from records.—The following table shows the number of transcripts issued from the records of births, stillbirths, deaths, and marriages during the fiscal year 1917. The fees collected for such transcripts amounted to \$560.50, while 205 such transcripts were issued free to various bureaus and offices of the Government.

Transcripts from records issued during the fiscal year 1917.

To whom issued.	Births.	Marriages.	Deaths.	Total.
Navy Department.....	21	.....	1	22
Police department, District of Columbia.....	7	.....	12	19
Commissioner of Pensions.....	13	6	128	147
Industrial Home School.....	1	.....	.....	1
Board of Children's Guardians.....	5	.....	.....	5
District attorney.....	1	.....	1	2
Adjutant General, United States Army.....	1	.....	1	1
Bureau Engraving and Printing.....	.....	.....	1	1
Juvenile court.....	.....	.....	2	2
Fire department, District of Columbia.....	.....	.....	2	2
United States Marine Corps.....	.....	.....	1	1
District of Columbia National Guard.....	.....	.....	2	2
Issued without fee.....	48	6	151	205
Issued with fee ¹	258	7	856	1,121
Total.....	306	13	1,007	1,326

¹ Amount collected, \$560.50.

Registration of physicians, dentists, undertakers, and midwives.—The following table shows the number of names of physicians, dentists, undertakers, and midwives on the registers of the health department during the fiscal year 1917, and at its close:

Physicians, dentists, undertakers, and midwives registered during the fiscal year 1917.

	On register June 30, 1916.	Registered during the year.	Known deaths during the year.	On register June 30, 1917.
Physicians.....	1,870	159	14	1,915
Dentists.....	867	19	.....	886
Undertakers.....	286	16	.....	302
Midwives.....	92	.....	1	91

¹Licenses registered, 8B and 33C; registered without licenses—Navy, 4; Army, 12; Public Health Service, 2.

Cemeteries and crematories.—There was no change in the number or location of the cemeteries and crematories in the District during the fiscal year 1917.

Permit and complaint office.—While the receipt of complaints of nuisances, etc., has no direct relation to the issue of burial permits, yet for purpose of convenience such complaints are received in the permit office connected with the bureau of vital statistics. The number of complaints received during the fiscal year 1917 was 4,147.

Cost.—The cost of maintaining and operating the bureau of vital statistics during the year was \$5,016.52. Fees for the issue of transcripts amounted to \$560.50. The net cost of the bureau during the year was therefore \$4,456.02.

LEGISLATION.

Amendments to the regulations governing public health were made during the year as follows:

COMMISSIONERS OF THE DISTRICT OF COLUMBIA, EXECUTIVE OFFICE, Washington, September 8, 1916.

Ordered: That the regulations adopted by the Commissioners of the District of Columbia on April 2, 1912, entitled "Regulations to Prevent the Spread of Tuberculosis in the District of Columbia," be and are hereby amended by adding thereto the following section, to be effective on and after October 1, 1916:

Sec. 7. No person suffering from laryngeal or pulmonary tuberculosis, or from tuberculosis in any other communicable form, shall attend any public or private school, either as teacher, pupil, janitor, or helper. No superintendent, principal, or teacher, and no parent, guardian, or other person having power and authority to prevent, shall permit any person suffering from laryngeal or pulmonary tuberculosis, or from tuberculosis in any other communicable form, to attend any public or private school, either as teacher, pupil, janitor, or helper: *Provided, however,* that the provisions of this section shall not apply to schools maintained solely for the instruction of persons suffering from tuberculosis.

Official copy furnished health department.

By order:

(Signed) D. J. DONOVAN, *Secretary.*

Officially published in the Washington Post, Washington Herald, Evening Star, and Washington Times on September 11 and 12, 1916.

COMMISSIONERS OF THE DISTRICT OF COLUMBIA, EXECUTIVE OFFICE, Washington, October 17, 1916.

Ordered: That section 4 of "An ordinance to provide for the inspection of streets, food, live stock, fish and other marine products in the cities of Washington and Georgetown, and to define the duties of inspectors and other officers of the board of health," is hereby amended by striking out the words "and sieze, and" after the word "con-

demn" and inserting in lieu thereof the words "denature or seize, or;" by inserting the word "denaturing" after the word "condemnation;" and by striking out the word "and" after the word "seizure" and inserting in lieu thereof the word "or," so that said section shall read as follows:

SEC. 4. That it shall be the duty of each inspector of food to attend the market or markets within his inspection district every morning, at the time when sales commence, and carefully inspect all meats, fowl, game, and vegetables offered for sale, and condemn, denature, or seize, or cause to be removed such as may be diseased or from any other cause rendered unfit for food. He shall also visit, as early as practicable each day, every green grocery or other place within his district where articles of food are kept for sale and perform his duty of inspection, condemnation, denaturing, seizure, or removal as hereinbefore prescribed. He shall report his official proceedings daily to the health officer, and in the performance of his duties shall be under the direction of said officer; and the inspectors of food shall perform such other duties and special inspections as may be directed by the health officer.

Official copy furnished health officer, D. C.

By order:

(Signed) D. J. DONOVAN, *Secretary*.

Officially published in the Evening Star of October 18, 1916.

[Order requiring that dogs in the District of Columbia be muzzled.]

COMMISSIONERS OF THE DISTRICT OF COLUMBIA,
EXECUTIVE DEPARTMENT,
July 19, 1916.

Ordered: That under the provisions of section 7 of the act of Congress, approved June 19, 1878, entitled "An act to create a revenue in the District of Columbia by levying a tax upon all dogs therein, to make such dogs personal property, and for other purposes," the Commissioners hereby give notice that every dog in the District of Columbia shall, for a period of one year from and after the 10th instant, wear a good and substantial muzzle, securely put on, so as to prevent it from biting or snapping, and any dog going at large during said period without such muzzle shall be taken up by the poundmaster and impounded.

Official copy furnished health department.

By order:

(Signed) D. J. DONOVAN, *Secretary*.

Officially published in the Washington Star and Times July 20 and the Herald and Post July 21, 1916.

PERSONNEL.

Changes in the incumbency of the chief clerkship and the chief food inspectorship have already been noted; also the appointment of a chief medical and sanitary inspector of public schools.

The organization of the health department has been very materially disarranged during the current year by reason of the large number of officers and employees called into active military service, and it seems certain that more will follow. Those called into service prior to the close of the fiscal year were as follows:

Health-office status.	Name.	Service.	Rank.
Food inspector.....	Pierre A. Chamberlin...	Quartermaster's Department, U. S. A.	Clerk.
Clerk.....	Leroy B. Foster.....	Navy.....	Lieutenant, junior grade.
Do.....	Richard S. Gessford.....	National Army.....	Second lieutenant.
Sanitary inspector.....	Dr. Arthur L. Murray ..	Army, D. C. Hospital Corps.	First lieutenant.
Do.....	Arthur S. Woodland....	National Army.....	Second lieutenant.

Since the close of the year, the following additional officers and employees have entered the military service:

Health-office status.	Name.	Service.	Rank.
nurse, contagious disease service.	Mary S. Culbertson.....	Red Cross.....	Nurse.
Clerk.....	Robert C. Kilmartin, jr..	Marine Corps.....	Second lieutenant.
Assistant health officer.....	Dr. John L. Norris.....	Medical Reserve Corps, U. S. A.	Captain.
Sanitary inspector.....	Dr. Raymond Randall..	Veterinary section Officers' Reserve Corps.	Second lieutenant.
Clerk.....	William M. Smith.....	Troop A, First D. C. Cavalry.	Sergeant.
Food inspector.....	Dr. John P. Turner.....	Veterinary Corps, National Army.	Major.

Respectfully,

WM. C. WOODWARD, M. D.,
Health Officer.

To the COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

1907

APPENDIXES
TO THE
REPORT OF THE HEALTH OFFICER
OF THE
DISTRICT OF COLUMBIA.

The publication of these reports as appendixes to the report of the health officer is not to be construed to mean that the opinions and recommendations set forth in them have been adopted by the health department.



APPENDIX A.

REPORT OF THE CHIEF MEDICAL INSPECTOR.

OCTOBER 6, 1917.

Dr. WILLIAM C. WOODWARD,
Health Officer, District of Columbia.

SIR: I have the honor to submit the following report for the fiscal year ended June 30, 1917, of work done in the contagious-disease service, disinfecting service, and the public crematorium. The figures relating to administrative matters cover the fiscal year named. Those relating to morbidity and mortality cover the calendar year 1916.

COMMUNICABLE DISEASES.

Figures showing the prevalence and fatality of each of the reportable diseases will be found with the tables relating to the disease. There was a decrease in the number of reported cases of smallpox, scarlet fever, typhoid fever, pellagra, and tuberculosis, and an increase in diphtheria, measles, whooping cough, chicken pox, epidemic cerebrospinal meningitis, and anterior poliomyelitis.

Diphtheria.—During the calendar year 1916, 647 cases of diphtheria were reported with 32 deaths, as against 644 cases and 28 deaths in the preceding year.

Nine institutional outbreaks occurred as follows, a very large percentage of cases reported being, however, carrier cases:

Institution.	Beginning of outbreak.	Cases.	Deaths.
National Training School for Boys ¹	Nov. 27, 1915	53	.....
Industrial Home School for White Children.....	June 2, 1916	7	.....
Washington Asylum Hospital.....	Jan. 14, 1916	17	.....
Children's Hospital.....	Jan. 26, 1916	76	1
Freedman's Hospital.....	Jan. 29, 1916	46	3
Garfield Hospital.....	July 10, 1916	8	.....
Baptist Home.....	Aug. 18, 1916	7	.....
St. Ann's Infant Asylum.....	Nov. 11, 1916	7	1
Florence Crittenden Home.....	Dec. 19, 1916	13	.....

¹ This outbreak started at end of last calendar year, at which time there were 98 cases from this institution reported, making a total of 151 cases.

Much might be done to prevent outbreaks of diphtheria in institutions if those in charge would take cultures from all new patients upon their admission, and pending examination of such cultures isolate such patients. Should they be found to be carriers of diphtheria bacilli that fact would be discovered before much harm could result.

In several previous reports it was recommended that the regulations now in force for preventing the spread of diphtheria be amended so as to require persons residing in houses where diphtheria exists to have cultures taken from their throats as soon as practicable after the cases are discovered. It is believed that the prompt taking of cultures from all members of households in which diphtheria is found to exist, would in many cases lead to the discovery of "carrier cases," and immediate steps could then be taken to isolate such persons. It

is again recommended also that the last culture taken from a person suffering from diphtheria, with a view to releasing him from quarantine, be taken by a medical inspector of the health department. It is believed that the adoption of these recommendations would go far in preventing the spread of diphtheria in the District of Columbia.

From January 1 to June 30, 1917, 332 cases of diphtheria with 15 deaths were reported, as against 356 cases with 19 deaths for the preceding year. It will be observed that not only did the number of cases decrease, but the percentage of fatalities also decreased from 5.4 in 1916 to 4.5 in 1917.

For information relative to the number of diphtheria cultures examined during the year see the report of bacteriologist.

Scarlet fever.—During the calendar year 1916, 530 cases of scarlet fever with 6 deaths were reported, as against 794 cases with 8 deaths for the preceding year, a decrease of 264 cases. The percentage of deaths to cases decreased from 1.1 per cent to 1 per cent.

From January 1 to June 30, 1917, 269 cases and five deaths were reported as against 309 cases and 6 deaths for the corresponding period of the preceding year.

Four institutional outbreaks occurred as follows:

Institution.	Beginning of outbreak.	Cases.	Deaths.
Industrial Home School for Colored.....	Feb. 1, 1916	12	.....
Georgetown University.....	.....do.....	4	.....
St. John's Orphanage.....	Mar. 31, 1916	3	.....
Bruen Home.....	Aug. 11, 1916	3	.....

Typhoid fever.—During the calendar year 1916, 308 cases of typhoid fever, with 46 deaths, were reported, as against 359 cases, with 42 deaths, for the preceding year—a decrease of 51 cases. Forty-six cases, or 14.9 per cent, terminated fatally, the percentage of the fatalities during the preceding year having been 11.7. With the exception of the year 1915, when there was an increase over the year 1914 of 19 cases, there has been for a number of years a steady decline of cases reported.

No milk nor institutional outbreak of typhoid fever was discovered during the year.

Investigation of 308 reported cases of typhoid fever gave the following information:

Contracted outside of the District of Columbia.....	116
Contracted probably outside of the District of Columbia.....	10
Contracted from other cases.....	5
Contracted probably from other cases.....	1
Contracted from sources unknown.....	174
Cases where no information was obtained.....	2
Total.....	308

The source of water supply used by these patients was as follows:

Potomac water exclusively.....	168
Potomac and other waters.....	2
Well water.....	6
Spring water.....	0
Total.....	176

In 31.5 per cent of the cases in which information was obtainable, the premises were well screened, 3.9 per cent of the patients had eaten raw oysters, 36.4 per cent had eaten raw vegetables, 20.1 per cent had eaten ice cream, 0.9 per cent had bathed at the bathing beach, 2.9 per cent had bathed in the river and other places, 6.2 per cent had employed new domestics within two weeks of onset, 25.6 per cent had eaten meals outside of their own home within two weeks of onset.

From January 1 to June 30, 1917, 65 cases were reported with 11 deaths, as against 91 cases and 16 deaths for the corresponding period of the preceding year—a decrease of 21 in the reported cases and decrease from 17.6 to 16.9 in the percentage of deaths.

Smallpox.—During the calendar year 1916 four cases of smallpox were reported, all of which recovered. During the previous year 15 cases were reported. During the first six months of 1917 three cases were reported.

The vaccination histories obtained from the patients were as follows:

Never vaccinated.....	1
Never successfully vaccinated.....	5
Total.....	6

During the fiscal year just closed new cement porches were built at the smallpox hospital, replacing the old dilapidated wooden ones, and a new covered porch with a cement floor was also put in the front of the administration building. At the smallpox hospital an incinerator for refuse has just been installed. The quarantine station was painted on the outside but is still badly in need of interior painting.

The wooden bases to the pillars on the front of the crematorium were replaced with cement, and cement porches were built.

Whooping cough.—During the calendar year 1916, 2,224 cases of whooping cough were reported, with 41 deaths, as against 674 cases and 19 deaths during the previous year.

An epidemic of whooping cough began in April, which continued practically unabated throughout the spring and early summer, gradually diminishing in the latter part of August and terminating in September.

Measles.—During the calendar year 1916, 2,642 cases of measles were reported, with 6 deaths, as against 1,940 cases and 5 deaths during the previous year.

Three institutional outbreaks occurred as follows:

Institution.	Beginning of outbreak.	Cases.	Deaths.
Freedman's Hospital.....	Jan. 8, 1916	5	.....
Bell Home.....	Apr. 10, 1916	8	.....
St. Elizabeth's Hospital.....	do.....	22	.....

An epidemic of measles began about February 1, 1916, and subsided about August 1, 1916.

Tuberculosis.—During the calendar year 1916, 1,061 cases of tuberculosis were reported, with 694 deaths, as against 1,095 cases and 734 deaths during the previous year.

Pellagra.—During the calendar year 1916, 16 cases of pellagra, with 9 deaths, were reported, as against 22 cases, with 11 deaths, during the previous year. Of the 16 cases reported, 11 were white, with 7 deaths, and 5 were colored, with 1 death.

Leprosy.—There were no new cases of leprosy reported. The department still has under its care one leper, who came to Washington in June, 1914.

Acute anterior poliomyelitis.—During the calendar year 1916, 39 cases of acute anterior poliomyelitis, with 6 deaths, were reported, as against 6 cases and 2 deaths during the previous year. The first case reported during the outbreak was on July 13 and the last case on October 5.

During the first six months of the calendar year 1917 no case of anterior poliomyelitis was reported, while during the corresponding period of the previous year, 2 cases were reported.

ISOLATING WARDS.

The following table shows the number of patients treated at Garfield Memorial and Providence Hospitals, and the diseases for which said patients were treated, together with the total number of patient days during the fiscal year 1917:

Service rendered by the isolating wards of Garfield Memorial and Providence Hospitals during the fiscal year 1916-17.

Diseases treated.	Cases treated at public expense.				Private cases.			
	Number of patients.		Patient days.		Number of patients.		Patient days.	
	Garfield.	Providence.	Garfield.	Providence.	Garfield.	Providence.	Garfield.	Providence.
Chicken pox.....	3	.....	41	.....	3	.....	33	.....
Chicken pox and measles.....	2	.....	42	.....	.....	.....	.....	.....
Diphtheria.....	5	166	40	2,833	1	70	13	1,070
Diphtheria and scarlet fever.....	5	.....	234	.....	1	.....	48	.....
Diphtheria and measles.....	3	2	35	52	1	1	42	14
Epidemic cerebrospinal meningitis.....	8	.....	234	.....	4	.....	56	.....
Erysipelas.....	13	.....	277	.....	10	.....	115	.....
Erysipelas and scarlet fever.....	1	.....	20	.....	.....	.....	.....	.....
Measles.....	58	.....	630	.....	41	.....	409	.....
Measles suspect.....	.....	.....	.....	.....	2	.....	3	.....
Scarlet fever.....	93	.....	3,733	.....	53	.....	1,730	.....
Scarlet fever and measles.....	7	.....	453	.....	.....	.....	.....	.....
Suspected scarlet fever.....	1	.....	22	.....	.....	.....	.....	.....
Suspected diphtheria.....	.....	31	.....	99	.....	11	.....	58
Suspected erysipelas.....	.....	.....	.....	.....	1	.....	6	.....
Suspected epidemic cerebrospinal meningitis.....	2	.....	20	.....	.....	.....	.....	.....
Whooping cough.....	14	.....	334	.....	.....	.....	9	.....
Whooping cough and measles.....	1	.....	59	.....	2	.....	.....	.....
Suspected whooping cough.....	2	.....	14	.....	.....	.....	.....	.....
Total.....	218	199	6,208	2,984	119	82	2,464	1,142

DISINFECTING SERVICE.

During the fiscal year 1917, 1,794 premises were disinfected for the diseases named: Diphtheria, 409; scarlet fever, 407; smallpox, 11; tuberculosis, 908; epidemic cerebrospinal meningitis, 16; typhoid fever, 1; anterior poliomyelitis, 40; pneumonia, 2.

The following articles were disinfected at the disinfecting station: Mattresses, 41; feather beds, 1; bolsters, 9; pillows, 90; quilts, 15; blankets, 10; matting, 1; rugs, 8; cushions, 6; sheets, 3; bundles of clothes, 5; piano covers, 1; couch covers, 1; bath robes, 1; satchels, 2; spreads, 2; books, 1,290; total, 1,486.

PUBLIC CREMATORY.

During the fiscal year 1917, 550 bodies were cremated—112 adults, 181 infants, and 257 stillborn babies. The total cost of maintaining the crematory, including personal service, repairs, supplies, etc., was \$1,630.89.

Estimating the bodies of 181 infants as equivalent to 15 adult bodies, and excluding stillborn children altogether, an equivalent of 127 adult bodies were cremated. Figured on 127 adult bodies, the cost of cremation for an adult body was \$12.84.

There were 38 private cremations during the year, for which fees were paid amounting to \$975. Deducting this amount from the total cost of maintenance, the net cost to the Government for the maintenance of the crematory was \$655.89, and the cost of cremating each adult body required to be buried at public expense was \$5.16½.

The crematorium was in operation during the year 110 days.

EUGENE L. LE MERLE,
Chief Medical Inspector.

Hospitalization of communicable diseases during the calendar year 1915-16.

Diseases.	Cases reported.		Treated in hospitals.			
			Number of cases.		Per cent of all cases.	
	1915	1916	1915	1916	1915	1916
Diphtheria.....	644	647	194	221	30.1	34.1
Scarlet fever.....	794	530	244	173	30.7	32.6
Measles.....	1,940	2,642	32	50	1.5	1.9
Whooping cough.....	674	2,224	12	15	1.8	.7
Chicken pox.....	932	1,139	3	8	.3	.7
Smallpox.....	15	4	15	4	100.0	100.0
Epidemic cerebrospinal meningitis.....	5	6	3	5	60.0	83.3
Anterior poliomyelitis.....	6	39	.....	4	.....	10.3
Typhoid.....	359	308	96	196	26.7	63.6
Pellagra.....	22	16	19	11	86.0	68.8



APPENDIX B

REPORT OF THE CHIEF FOOD INSPECTOR.

JULY 30, 1917.

Dr. WM. C. WOODWARD,
Health Officer, District of Columbia.

DEAR SIR: I have the honor to submit the annual report relative to the operation of the food-inspection service during the fiscal year ended June 30, 1917.

Dairy farms.—A comparative statement showing the number and location of dairy farms from which milk is sold in the District of Columbia, the number of cattle on such farms, and the frequency of farm inspections, for the fiscal years 1916 and 1917, is submitted. (See p. 23.) There was a decrease during the latter year of 97 in the number of dairy farms registered and an increase of 1,091 in the number of dairy cattle.

The decrease in the number of dairy farms licensed is apparent only, being due solely to the cancellation on the records of the department of a number of farms that have been carried on the records when in fact they had discontinued business. This fact is further borne out in that there was an increase of 1,091 in the number of cattle on farms sending milk here for sale.

During the year covered by this report the practice was adopted of not accepting applications for permission to send milk into the District of Columbia for sale unless the farm described substantially complied with the regulations of the District of Columbia. In this way applications were acted upon more promptly, and the number of pending applications has been greatly decreased.

Tuberculosis and tuberculin testing.—Nine thousand six hundred and ninety-one cattle on the farms producing milk for sale in the District were reported as having been officially tuberculin tested during the year. Of these, 9,346 passed, 301 reacted, and 44 were regarded as suspicious. Several of those reported as suspicious were retested and passed. Reports from those herds which are regularly tested are still gratifying, in that practically no reactions are now noted. The percentage of tuberculous animals found decreased from 3.6 to 3.3 per cent.

The milk from eight herds was tested by inoculations to determine the presence of tubercle bacilli. All of these tests proved negative. This is the first year since this method was adopted that no positive results were obtained.

Dairies.—There was an increase in the number of inspections of dairies during this year, due in part to the fact that the inspector assigned to this work has not been required, as heretofore, to devote a portion of his time to clerical work, a clerk having been available for such duty, and in part to the fact that the number of licensed dairies, all subject to inspection, has decreased.

Pasteurization and grading.—From the results of examination of specimens of milk sold in the District of Columbia it is evident that the pasteurization of milk should be under the control of the District government, and I so recommend: and further that all milk sold here be required to be labeled as of a specified grade, such grades to be established by law.

Milk cans.—Approximately 18,000 milk cans being returned to producers of milk were examined during the year. Of this number 235 were tagged so as to notify the owners that such cans were not suitable for the purpose for which they were being used. Invariably this tagging resulted in the discontinuance of the use of the cans for shipping milk.

Inspection of markets, groceries, and other places where foods are prepared for sale and sold.—There was a decrease in the number of inspections of places of this character during the year, accounted for by the detail of one inspector for one-fourth of the year to a revision of the food register. This revision has shown that many places have been carried on the register as places where food was sold, although as a matter of fact they were no longer used for that purpose. The register is being corrected as rapidly as possible, so that it may show the true condition. Inspections of markets and the other classes of establishments named would, in my opinion, be more valuable to the community if the health department could prevent the establishment or continuance of any such enterprise whenever the premises occupied by it are from a sanitary standpoint unsuitable for the business.

It is recommended that the removal of garbage and refuse from markets be done during the night, instead of during market hours, as at present.

Inspection of slaughterhouses.—There are now 15 slaughterhouses in the District of Columbia, six such establishments having discontinued business during the year. Inspections of slaughterhouses numbered 287. The decrease in the number of slaughterhouses is accounted for by the fact that a number of the smaller butchers are now killing in larger establishments, where better facilities for such work are provided. There were inspected at the time of slaughter: Cattle, 80; sheep, 357; and calves, 610. None of these animals was found unfit for food. It is recommended that all animals slaughtered in the District of Columbia for food be inspected and passed before their carcasses are permitted to be sold for food.

Communicable diseases of animals.—One hundred and twenty-seven dogs were reported to the health department as rabid or suspected of being rabid, and were examined by department veterinarians. Last year such reports numbered but 23—dogs 18 and cats 5. In two cases during the past year the diagnoses were confirmed by post-mortem findings of the Bureau of Animal Industry, United States Department of Agriculture. (For a detailed report on this disease, see p. 17.) The increase in the number of reports received was due to the fact that members of the police department have been ordered to report to the health department all cases where persons are found to have been bitten by dogs, and such reports have been received and acted upon.

In this connection I wish to suggest that it be declared a misdemeanor for any owner of a dog in the District of Columbia, which

is known to have bitten a person, to remove such dog from this jurisdiction before it has been examined by this department and permission given for such removal.

Anthrax was reported in a dairy farm district in Virginia, and glanders was reported among horses belonging to a contractor in the District of Columbia. Investigation was made in each case. In the former 205 cattle were examined, and in the latter 305 horses were examined. No positive cases were found.

Recommendations.—I recommend that an additional section to the regulations for the government of dairies and dairy farms be recommended to the Commissioners, as follows: On and after July 1, 1918, all cattle on any dairy farm on which milk is produced for sale in the District of Columbia shall be free from tuberculosis, as demonstrated by the application of an official tuberculin test, the test to be applied once each year or as often as the health officer may deem it necessary.

It is further recommended that said regulations be amended so as to provide that no milk or cream be brought or sent into the District of Columbia for sale, or for manufacture, or be sold, stored, held for sale, or offered for sale in this jurisdiction, unless said milk or cream be kept at a temperature not exceeding 50° F.; and that no utensils or pails used to receive the milk as secreted from the udder of the cow shall have an uncovered opening at the top exceeding 7 inches in diameter.

It is recommended that section 12a of an ordinance to prevent the sale of unwholesome food in the District of Columbia be amended so as to provide that no market, store, or stall where food is offered for sale and sold shall be established, maintained, or continued without a certificate from the health officer that the premises are in a sanitary condition and suited to the conduct of such business.

Recommendation is also made that the manager of every cold storage plant in the District of Columbia be required to keep a record, accessible to the health department, of the movement of perishable food products into and out of his plant.

It is further recommended that all dealers, whether indoors or out, in meat or other food which is not commonly washed, peeled, or cooked before being eaten, be required to provide cases for displaying such articles, so that such food will be protected from flies and other insects, as well as to prevent indiscriminate handling of these products by prospective purchasers.

R. R. ASHWORTH, D. V. S.
Chief Food Inspector.



APPENDIX C.

REPORT OF THE CHEMIST.

JULY 14, 1917.

SIR: I have the honor to submit the following report relative to the work performed in the chemical laboratory during the fiscal year 1917.

During the year there were examined a total of 9,543 samples, as follows:

Health department, examinations for—	
Candy.....	83
Drugs.....	187
Foods.....	9,064
Water.....	149
Miscellaneous.....	14
	9,497
Coroner, examinations for.....	1
Police department, examinations for.....	44
Purchasing officer, examinations for.....	1
	46
	9,543

A tabulated statement, in detail, of the above articles, together with a similar statement for the preceding fiscal year, appears on page 67.

MILK AND CREAM.

Data concerning the collection of samples of milk and cream, results of analyses, and results of prosecutions, during the fiscal year 1917, appear in the following statements:

Milk: Sources of samples collected, the number from each source, and the percentage from each source below standard during the fiscal year 1917.

	Number collected. ¹	Per cent of total collections.	Below 3½ per cent butter fat.	3 per cent and below.
District of Columbia dairymen.....	1,143	13.72	9.79	0.17
Stores, lunch rooms, etc.....	114	1.36	26.31	6.14
Wagons from—				
Maryland.....	1,192	14.30	13.42	1.08
Virginia.....	997	11.97	9.72	.40
Union Station, from Maryland farms.....	2,156	26.09	8.18	.55
Stations, from Virginia farms.....	2,690	32.28	11.34	.74
Union Station, from other States.....	23	.28	17.39	.....
Total.....	8,315	.....	.....	.....

¹ Does not include 67 samples of milk used for experimental purposes, examined for preservatives or identified as milk products in illegal shipments.

Cream: Places where samples were collected, the percentage from each source of those found below standard, and the percentage from each source of those containing 18 per cent and less of butter fat during the fiscal year 1917.

	Number collected. ¹	Per cent of total collections.	Below 20 per cent fat.	Below 18 per cent fat.
District of Columbia dairymen.....	28	7.74	82.14	32.14
Stores, lunch rooms, etc.....	5	1.38	80.00	40.00
Wagons from—				
Maryland.....	44	12.15	70.45	31.82
Virginia.....	105	29.01	63.81	23.81
Union Station, from Maryland.....	72	19.89	68.05	31.94
Stations, from Virginia.....	85	23.48	64.70	32.94
Union Station, from other States.....	23	6.35	13.04	4.34
Total.....	362			

¹ Includes 14 samples examined for purposes other than fat determination.

Milk and cream: Percentages containing less than the legally required amount of butter fat and the percentage of samples of milk containing added water, annually during the five fiscal years ending 1917.

Fiscal year.	Cream containing less than 20 per cent butter fat.	Milk containing less than 31 per cent butter fat.	Milk containing added water.
1913.....	64.92	4.89	0.63
1914.....	48.27	4.69	.97
1915.....	57.73	7.71	.76
1916.....	61.39	8.52	1.22
1917.....	64.09	10.63	1.50

Prosecution for the sale of milk below standard, milk containing added water, and milk containing foreign matter, and cream below standard, in the District of Columbia, during the fiscal year 1917.

Sources of samples.	Prosecu- tions.	Results.			Pending June 30 1917.
		Nolle pros.	Tried.		
			Personal bonds.	Fines.	
Resident milk dealers.....	1				1
Stores, lunch rooms, etc.....	4				4
By rail from—					
Maryland.....	16		(6)	\$105	10
Virginia.....	13		(10)	170	3
By wagon from—					
Maryland.....	11		1	(3) 45	7
Virginia.....	7			(6) 100	1
Total.....	52		1	(25) \$420	26

NOTE.—Action was suspended in 49 cases during the year.

It will be noted from the above statements that the percentage of milk containing less than $3\frac{1}{2}$ per cent butter fat and the percentage containing added water have both increased steadily during the last three fiscal years. In my opinion, the first of these conditions is due to the fact that within the last few years the tendency has grown among neighboring milk producers to introduce more and more

Holsteins into their dairy herds, the idea being to secure greater quantity to sell at top-notch prices. The increased quantity is, of course, secured at the expense of quality, with the result that a larger proportion of the milk collected is found to be below $3\frac{1}{2}$ per cent fat.

The increase in the proportion of samples containing added water is probably due to several factors. The demand for milk has been great during the past fiscal year and high prices have prevailed. Under these circumstances the temptation to make up short volume or partly filled cans with water has undoubtedly led to more watering than usual. The knowledge on the part of some milk producers that the food laws of the District of Columbia are considerably tied up in the courts may have encouraged some few in this practice. Finally, I believe that the fact that action was suspended by this Department in so large a proportion of watered milk cases has not failed to have some effect in increasing the added water habit. In this connection it may be mentioned that, out of 84 cases of watered milk disclosed during the year, action was suspended in 43 cases.

WATER.

One hundred and forty-nine samples of water were subjected to a sanitary chemical analysis during the year, as follows:

Sources.	Total samples examined.	Good.	Suspicious.	Condemned.
Dairy farms.....	6	4	.....	2
Private wells.....	79	46	4	29
Public schools.....	12	9	.....	3
Public wells.....	52	35	4	13
Total.....	149	94	8	47

Sixty-six and two-thirds per cent of the samples of water from wells on dairy farms showed no evidence of pollution, none were classed as suspicious, and $33\frac{1}{3}$ per cent were condemned. From private wells, 58.23 per cent showed no evidence of injurious contamination, 5.06 per cent were classed as suspicious, while 36.71 per cent were condemned. From public school wells, 75 per cent were found free from pollution, none were classed as suspicious, and 25 per cent were condemned. From public wells 67.30 per cent were free from injurious contamination, 7.70 per cent were classed as suspicious, while 25 per cent were condemned.

MISCELLANEOUS ANALYSES.

Bread.—Forty-six samples of bread were purchased and submitted to analysis in order to determine the composition and the relative economy of the loaves, selling for different prices. This information was particularly interesting because the price of bread had been raised about November 1, 1916. The loaves examined varied in price from 4 to 12 cents, and the determinations and calculations made on each included net weight, moisture, protein, ash, weight of bread for

each cent spent, weight of solid matter for each cent spent, and weight of protein for each cent spent. The results of this investigation have been published in the June, 1917, number of the American Journal of Public Health and may be summarized as follows:

1. The 4-cent loaves appeared to have been the most economical and the 6-cent loaves the least economical at the time of the investigation.

2. The 10-cent and 12-cent loaves were not the most economical, as we had been led to believe.

3. The purchasing power of the consumer's penny as regards bread had decreased between 13.1 and 21.5 per cent since November, 1916.

As the price of bread in Washington was raised again about May 1, 1917, 13 loaves of bread were purchased shortly after that date and the net weight and weight of bread for each cent spent was determined in each case. The prices of the various loaves were 6, 8, 9, 10, 14, and 15 cents. It was found that the most economical of the loaves examined at that time was more expensive than the least economical loaf found in the previous examination. In the majority of cases the cost of the bread had increased about 33½ per cent, based on the net weight and retail price of each loaf.

Butter.—During the year 84 samples sold as butter were submitted for analysis. Seventy-five of these samples were purchased in lunch rooms and restaurants. Of these, 44 were found to be genuine butter, 13 were oleomargarine, and 18 were renovated or "process" butter. These cases are pending. The other nine samples of butter were from stores and markets. All of these samples proved to be genuine butter, but one contained water in excess of the legal limit. Action was suspended in this case.

Drugs.—A total of 187 drugs was examined during the year, including tincture of iodine, elixir of iron, quinine, and strychnine, chloroform liniment, solution of magnesium citrate, mercurial ointment, zinc ointment, and one sample of "Pilo."

The samples of tincture of iodine, elixir of iron, quinine, and strychnine, chloroform liniment, and solution of magnesium citrate were collected and analyzed in collaboration with the Bureau of Chemistry of the United States Department of Agriculture. Of the four samples of tincture of iodine examined two were deficient in potassium iodide and iodine, while two complied with the pharmacopœial standard, although one of these failed to bear a statement on the label of the proportion of alcohol in the product.

Of the 42 samples of chloroform liniment analyzed, 13 complied fairly closely to the pharmacopœial standard, while 29 were misbranded or adulterated, or both. Of these, 9 were deficient in alcohol, 1 was deficient in camphor, 4 were deficient in chloroform, 2 were deficient in both alcohol and camphor, 5 were deficient in chloroform and alcohol, 5 were deficient in chloroform and camphor, 5 were deficient in chloroform, camphor, and alcohol, and in two cases camphor was entirely absent. Four samples were not labeled to show the presence of chloroform and alcohol, one sample was not labeled to show the presence of alcohol, and one sample was labeled soap liniment.

Of the 46 samples of elixir of iron, quinine, and strychnine examined, 3 conformed to the label statement, while 43 were misbranded, adulterated, or both. Only two samples contained no phosphoric

acid or phosphates. Of the 44 samples containing phosphates, 28 were labeled to show the presence of phosphates. Not a single sample of those examined conformed to the official formula for elixir of iron, quinine, and strychnine. Twenty samples appeared to be made according to the formula for the elixir of iron, quinine, and strychnine phosphates of the U. S. P. VIII, no longer official. Three corresponded fairly well to the elixir of iron pyrophosphate, quinine, and strychnine, N. F. IV.; 1 appeared to be elixir of iron phosphate, quinine, and strychnine, N. F. III; 1 corresponded to the elixir of iron, quinine, and strychnine, N. F. III, and 11 appeared to have been prepared according to private formulas. Five samples were deficient in alkaloids, 2 contained highly excessive quantities of alkaloids, 11 failed to bear statements of the alcoholic content, and in 9 cases the alcoholic content was incorrectly stated.

Of the 45 samples of solution of magnesium citrate analyzed, 24 were found to be misbranded, adulterated, or both. Of these, 9 were deficient in citric acid, 2 were deficient in magnesium, 10 were deficient in both magnesia and citric acid, while in 4 cases the volume was considerably short, 300 c. c. or below. In two cases the bottles bore no label whatsoever.

Hearings on the above cases were held at the Bureau of Chemistry, the chief food inspector of this department and the chemist attending. Final action had not been taken in these cases at the end of the fiscal year.

Of the 26 samples of mercurial ointment analyzed, 13 were so deficient in metallic mercury as to warrant the conclusion that they were the diluted mercurial ointment, or "blue" ointment. The mercury content in one sample was highly excessive. Hearings were held, but action was suspended in these cases because the department did not feel satisfied that the samples had been properly collected.

Of the 23 samples of zinc ointment examined, 2 were deficient in zinc oxide, 4 contained petrolatum instead of benzoated lard as a base, while 8 contained excessive quantities of lead. At the hearings it appeared that it was difficult or commercially impossible to obtain a strictly U. S. P. zinc oxide at the time and that even the zinc oxides commanding the highest prices exceeded the pharmacopoeial limits for heavy metals. Action was suspended in these cases.

A sample of "Pilo" extensively advertised as "an internal remedy for piles," was analyzed and found to consist of chocolate-coated tablets containing emodin-bearing drugs, of which rhubarb and cascara were identified. Licorice and yerba santa, and small quantities of tannin, starch, reducing sugars, gums, resins, and a trace of volatile oil were also found to be present. The analysis was made with the intention of using the results as a partial basis for prosecution under the fraudulent-advertising law.

EXAMINATIONS FOR THE POLICE DEPARTMENT.

Clothing.—Five articles of clothing were submitted for examination. One, from the victim of an assault, was found to contain seminal stains. Of the two other articles of clothing submitted in a similar case, one was found to contain blood stains, while on the other both blood and seminal stains were identified. A coat of a murder

suspect was found to contain stains corresponding to tests for blood, while his hat was free from blood stains. All these cases are pending.

Liquids suspected to be beer.—Of the eight samples submitted, four were found to contain more than 2 per cent, by weight, of absolute alcohol. In one case a detailed analysis was made to determine whether the product was a fermented, malt liquor but charge in this case was withdrawn after a conference between the defendant's attorneys and the corporation counsel. Similar action was taken in the cases of the other samples containing less than 2 per cent alcohol by weight. The other cases are pending.

"Bevo" and "Noalco."—These were found to contain 0.146 per cent by weight and 0.255 per cent by weight of absolute alcohol, respectively.

Sandwich.—An apple-butter sandwich which had been prepared for a schoolboy by a servant was found to contain 13.86 grains of phenol or carbolic acid. The remainder of the apple butter from which that in the sandwich had been taken was found to contain no phenol. A bottle of liquid found on the premises proved to be carbolic acid. The servant was indicted by the grand jury and the case is pending.

Blackberry cordial.—A sample of blackberry cordial suspected to contain poison was found to be free from poison. The sample had undergone acetic fermentation and contained 1.34 per cent of acetic acid.

Pills.—These were suspected to contain abortifacients or narcotics. Neither was found. One was a cathartic pill containing podophyllum and leptandrin. A capsule submitted in this case contained quinine sulphate, and some tablet triturates were found to contain one-sixth grain codeine sulphate per tablet. A stick suspected to have been used for producing abortion was found to be dragon's blood, wrapped in the leaf of the tree from which it is obtained. The defendant in this case was not indicted by the grand jury because of insufficient evidence.

Miscellaneous substances suspected to contain poison.—Among these were samples of coffee, apples, peaches, candy, powder, sausage, sugar, and chicken. All of these were found to be free from poisonous substances, with the following exceptions. The sausage, which had been taken from a child who was about to eat it, was found to contain strychnine. The powder was found to contain bichloride of mercury. These cases are pending.

Liquid suspected to contain gasoline and acid.—This was found to consist of an upper layer of gasoline measuring 3.400 c.c. and a lower layer measuring 100 c.c. and containing 9.12 per cent by weight of acetic acid, and 35.09 per cent by weight of sulphuric acid. The defendant in this case was charged with introducing this mixture into the dry-cleaning machine of a cleaning and dyeing establishment, thereby ruining many articles of clothing as well as the machinery. The case is pending.

Examinations for the inspector of pharmacy, police department.—These included the following: Seven samples of household ammonia, not labeled in accordance with the pharmacy act. The defendants forfeited \$5 collateral in each case.

A sample of medicine prescribed by an unlicensed practitioner: This contained 93.35 per cent water; alcohol, 0.36 per cent; 6.01 per

cent anhydrous calcium chloride; a trace of oil of anise; and organic matter. The case is pending.

A sample of "Roachsault," a roach exterminator, which had been taken by a man in place of Rochelle salt, with serious results. This sample was found to contain 43.08 per cent by weight of sodium fluoride, the remainder being composed chiefly of silica, with traces of iron, alumina, and water. The preparation was not labeled poison as required by the pharmacy act. On agreement to properly label the preparation no further action was taken.

A sample of "Wilson's U. S. Condiment," a condition powder for animals, was suspected to be improperly labeled. Analysis of the product showed it to consist essentially of a mixture of flaxseed meal, corn meal, and powdered foenugreek seeds,—a popular condition powder combination.

Time consumed by police department work.—A record was kept of the time spent during the fiscal year on work, both analytical and court testimony, connected with samples submitted by the police department. The results are interesting. During the fiscal year 1917 the chemist spent a total of $44\frac{1}{2}$ days on police department work. This is equivalent to 14.8 per cent of the total working year of 300 days. The assistant chemist spent 12 working days during the fiscal year 1917 on police department work, or 4 per cent of his total time for the year.

M. A. POZEN, B. S., Phar. D.,
Chemist.

WM. C. WOODWARD, M. D.,
Health Officer, District of Columbia.



APPENDIX D.

REPORT OF BACTERIOLOGIST.

JULY 15, 1917.

DEAR SIR: I have the honor to submit the following summary of the operations of the bacteriological laboratory for the fiscal year 1917:

Specimens sent in for diagnosis numbered 15,097.

Diphtheria.—Specimens for diphtheria were 10,172 as compared with 12,514 during the year previous. Positive cultures for the diphtheria bacillus numbered 588, of which 315 were carrier cases, leaving 273 clinical cases. The great increase in the number of diphtheria cultures during these two years was due to the discovery of clinical and carrier cases in several institutions and schools, rendering it advisable to culture those who had been in contact with such cases. From the results achieved it is believed that these efforts were justified, as many carrier cases have been detected and isolated.

The experience gained during this year as well as the year previous has demonstrated that cultures should always be taken from the nose and throat of every case suspected of diphtheria or of being a carrier; also that in no case where the diphtheria bacillus has been found should the person be discharged from quarantine until at least after two successive negative cultures have been obtained from the nose and throat; and, further, that these cultures should be taken at 24-hour intervals. I would also suggest the propriety of having the last of these negative cultures taken by a representative of the health department.

So far it has been impractical to apply the same methods to the contacts in a family group in dealing with institutions and the schools, but the few instances where this was done demonstrated the necessity for such procedure. All the evidence on these lines confirms McDonald's statement that if we would hope to control diphtheria in a community we must begin with the control of the carrier.

Tuberculosis.—The examination of specimens of sputum shows about the same number as in the previous year, 1,589—far too few. It is hoped that additional interest can be excited and maintained, now that the health department is authorized to institute clinics for the treatment of cases of tuberculosis. It is seldom that specimens of sputum are submitted from hospitals and institutions, save one. Possibly this is because these hospitals and institutions have laboratory facilities of their own, but there is a strong contrast between them and the one hospital which sends to this laboratory specimens of sputum from all patients who have coughs. In view of the fact that nearly all these hospitals receive the same class of patients—that is to say, those whose care and treatment are paid for by the District government—why should there be such a discrepancy between the number of cases reported as tuberculosis from one hospital and the others, since all treat same class of patients?

Typhoid fever.—Typhoid fever has occurred on several dairy farms supplying milk to Washington, and it has been found on examination that such cases, and in some persons in direct contact with them, were excreting typhoid bacilli; some convalescent persons and others apparently in perfect health. Whether in the latter cases these persons had had the disease at some previous time could not be determined, but in all probability this was the case, and these were carriers. The importance of discovering such cases in the protection of the milk supply can not be too strongly emphasized; and search for them should have a wider application than it has had in the past.

The same principles apply to the discharge of cases of typhoid after convalescence has been established and should be applied to all connected in any way with the handling of foods. There can be no question but that cases of typhoid fever are discharged before the bacilli disappear, and that these cases are a danger and are liable to spread the disease. Certainly it would seem possible for these to account for many cases originating in the city where the origin can not be traced.

Manufacture of vaccines and serums.—Steps have already been taken for the production of curative serums, and just as soon as additional room is provided for their final preparation they will be ready for distribution. Antityphoid vaccine is also being prepared and administered to the employees of the District. It is also available for use in preventing the disease generally where its use is deemed advisable.

Bubble fountains.—An extensive study of the drinking fountains has been made during the year, and a separate report has been submitted on it. None of the devices examined was found to be sanitary; in fact, every one of them could easily become the means of spreading mouth-borne infections.

Swimming pools, etc.—The wading ponds, bathing beach, and swimming pools, both public and private, have been examined at intervals throughout the year. The bacteriologic examination of these shows that there is much to be desired. Where the rules issued by the health department have been followed the sanitary condition has been constantly good, but these rules have been observed more by the breach than observance, and the sanitary condition was bad.

Milk and cream.—The bacteriological examination of the milk and cream has been conducted on the same lines as heretofore. On the whole, the quality of the milk, judging from the bacterial content, improved during the year, but a large amount of milk of inferior quality—I mean dirty milk—is still being brought into the District.

Samples have been collected on the same schedule as last year, and this shows that there is an increasing amount of milk which has been subjected to the pasteurizing process. Consequently the total bacterial content is lower than would obtain if it had been raw milk. The number of bacteria is too high, however, and the colon group appears in large numbers, demonstrating efforts at pasteurizing old dirty milk with a view of eliminating the bacteria, a thing next to impossible, and showing the application of the pasteurizing process in a faulty manner.

Laboratory quarters.—The laboratory has long ago outgrown its quarters, which are inadequate even for the examination of the number of specimens of milk and water now submitted, and for diagnosis. The additional duties have been imposed, which include the manufac-

ture of serums, the preparation of vaccines, the serological diagnosis of disease, make it necessary to provide additional space at the earliest moment practical.

I append a tabular statement of the number of examinations made during the fiscal year.

	For six months, July 1, 1916, to Dec. 31, 1916.			For six months, Jan. 1 to June 30, 1917.			Grand total.
	Positive.	Negative.	Total.	Positive.	Negative.	Total.	
Diphtheria:							
Primary positive.....	265			190			
Primary negative.....		1,704			3,265		
Secondary cultures.....		1,632	3,601		3,116	6,571	10,172
Carriers.....			47			268	315
Sputum for tubercle bacilli.....	172	576	748	160	681	841	1,589
Blood from suspected cases for Widal reaction.....	41	263	304	55	144	199	503
Urine and feces for typhoid bacilli..	1	29	30	2	15	17	47
Malaria.....	2	88	90	1	38	39	129
Ophthalmia.....		4	4		4	4	8
Menigitis.....				2	1	3	3
Milk and cream.....			815			816	1,631
Water, wells, springs, drinking foun- tains.....			111			191	302
Swimming pools, bathing beach, etc.			183			175	360
Milk for tubercle bacilli.....			3			1	4
Miscellaneous.....			13			21	34
Grand total.....							15,097

Respectfully,

J. J. KINYOUN, *Bacteriologist.*



APPENDIX E.

REPORT OF THE SANITARY INSPECTION BUREAU.

OCTOBER 5, 1917.

Dr. WILLIAM C. WOODWARD,
Health Officer, District of Columbia.

DEAR SIR: I have the honor to submit the annual report relative to the operations of the bureau of sanitary inspection during the fiscal year, 1917. Tables showing the work done during the year named appear on pages 63 and 64.

Organization.—The working force of the bureau of sanitary inspection, exclusive of the inspectors provided for the enforcement of the eight-hour law for females, was organized as follows: One chief sanitary inspector, \$1,800; one assistant chief sanitary inspector, \$1,400; seven inspectors, at \$1,200; two inspectors, at \$1,000; two inspectors, at \$900; total force, 13; total salaries, \$15,400.

Work done.—The following is a summary of the work done:

Complaints acted upon.....	8,852
Inspections on complaint.....	12,161
Reinspections.....	16,385
Official calls other than calls made for the service of a notice outside of assigned inspection districts.....	2,466
Number of inspections and character of places inspected of which no complaint was made and not included in the inspections on complaints:	
Bany farms.....	43
Barber shops.....	1,085
Baking establishments.....	93
Cemeteries.....	39
Hospitals and asylums.....	108
House-to-house inspections.....	4,238
Lodgings and tenements.....	223
Laundries.....	1,460
Privies.....	1,177
Public baths.....	2
Public buildings.....	94
Playgrounds.....	46
Printing offices.....	406
Public schools.....	565
Sewage-disposal systems.....	174
Stables.....	1,243
Tailor shops.....	130
Theaters.....	90
Undertaking establishments.....	6
Unclassified.....	417
Total.....	11,639

Violations of laws and regulations for the prevention and abatement of nuisances were reported in 11,885 instances. Action was taken to correct the conditions found, and 11,366 were corrected prior to the close of the fiscal year. The difference, 519, represents the number of cases for which notices were out.

Prosecutions.—Informations were filed in the police court against 233 persons, charging violations of the laws and regulations relating

to the public health, exclusive of the smoke law. These cases were disposed of as follows: Nolle prosequi was entered in 146 cases; personal bonds were taken in 33 cases; collateral forfeited in 1 case; and fines were imposed in 6 cases. There were 47 cases pending at the close of the fiscal year. The amount of fines and collaterals was \$64. The same system prevailed during this year as has prevailed previously, the assistant corporation counsel entering a nolle prosequi whenever the nuisances for the maintenance for which the defendants were charged had been abated before the cases were called for trial, although not abated until after the cases had been submitted for prosecution. Inspectors' time spent in the police court amounted to 35 working days.

Abatement of nuisances under assessment system.—Under the assessment system 217 notices were served on nonresident owners for the abatement of nuisances on property owned by them in the District of Columbia. In all but 19 cases such nuisances were abated by the owners without the necessity of further action by the commissioners. The 19 cases in which the abatement was not done by the owners the District caused the necessary work to be done at a cost of \$125.30, which was assessed as a tax against the property upon which the nuisances had existed.

Printing offices.—During the year 406 inspections were made of printing offices—an average frequency of three and six-tenths time for each office. Particular attention was paid to composing rooms. Improved sanitary conditions have continued in such rooms during the year. Sanitary supervision has been greatly improved, as has also the structural conditions of some places.

Bakeries.—Sanitary supervision of bakeries began about the middle of March, 1917, and during the year 93 inspections were made—an average of three for each establishment. The proprietors of these establishments responded to the suggestions made and cooperated with the health department to better conditions, with result that more natural light has been provided, structural and sanitary conditions greatly improved, and equipment kept in better condition, common towels and drinking cups dispensed with, miscellaneous articles not incident to the business were discarded, and improvements made in general.

Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems.—Stables, barber shops, laundries, privies, fowl and pigeon houses, and sewage-disposal systems were registered during the year as shown in the table on page 63.

Stables.—During the year 1,243 inspections of stables were made and 177 nuisances discovered. The average frequency of an inspection of each stable was 0.8 time.

Barber shops.—During the year 1,085 inspections of barber shops were made—an average frequency of 1.5 times for each barber shop.

Laundries.—Inspections of laundries during the year numbered 1,460. The average frequency of an inspection of each laundry was 0.58 time.

Privies.—On June 30, 1917, there were registered in the District approximately 2,733 privies, of which, however, only 115 were within the city of Washington or in the suburbs adjacent thereto; 98 privies were abolished under notice served by the department, 5 by the operation of the board for the condemnation of insanitary buildings, and 24

for other causes. There were 1,177 inspections of privies, equivalent to each privy inspected 0.46 times during the year.

In 32 places in which privies were located upon land belonging to nonresidents the inspector of plumbing, engineer department, was requested to have the necessary sewer and water connections made under the assessment system, so that the box privies might be removed. At the close of the fiscal year, 22 of these premises had been so connected.

Thirty-three permits for the maintenance of privies temporarily during building operations or other construction work were issued.

Weeds.—Seven hundred and ten notices were served during the year under the provisions of the weed law, of which 84 were notices under the assessment system. In each instance the nonresident owner caused the weeds to be cut and removed from the property. In the absence of a special force for the enforcement of this law it is impossible to enforce it in any substantial manner. Provision should be made for such enforcement or the law should be repealed.

Smoke inspection.—The statement showing the work of the sanitary inspector detailed to the enforcement of the smoke law appears on page 28.

Inspectors detailed.—During the year sanitary inspectors were detailed for clerical duty for periods amounting to 68 days. One clerk was detailed from the clerical service to the sanitary service for 95½ days. Sanitary inspectors were detailed to the food service for 103 days. Food inspectors were detailed to the sanitary service for 97 days.

Contagious-disease service.—The time consumed by sanitary inspectors in duty in the contagious-disease service during the year amounted to 96½ working days.

Registration of vital statistics.—During the year 106 cases were investigated by sanitary inspectors in connection with the registration of births, involving the expenditure of approximately 7¼ working days.

Eight-hour female labor law.—The following is a summary of the work performed in the eight-hour female labor-law service:

Complaints acted upon.....	109
Inspection on complaint.....	112
Official calls made.....	276
Number of inspections made at various kinds of establishments:	
Manufacturing.....	1, 528
Mechanical.....	846
Mercantile.....	6, 049
Laundries.....	815
Restaurants.....	1, 233
Telegraph and telephone.....	64
Express and transportation.....	200
Hotels.....	370
Miscellaneous.....	35
1,735 establishments coming within the purview of the law were registered and classified as follows:	
Hotels.....	52
Laundries.....	154
Mechanical.....	101
Manufacturing.....	254
Mercantile.....	984
Restaurants.....	146
Telephone and telegraph.....	8
Express and transportation.....	36

At the close of the preceding fiscal year six cases were pending in the police court for violation of law regulating the hours of labor of females. Nine violations were reported during the year and referred to the corporation counsel for prosecution. These cases were disposed of as follows: In 3 cases a nolle prosequi was entered, in 1 case personal bond was taken, fines imposed in 9 cases, 1 case was dismissed, and 1 case was pending at the close of the year. The amount of fines was \$160.

Overtime.—Sanitary inspectors, exclusive of the supervising officer, worked 1,247 hours overtime during the year, equal to 178 working days, without compensation.

Recommendations.—I renew my recommendations that the collection and disposal of manure be under the supervision of the District authorities; that the weed law be either repealed or some provision made that will enable the health department to enforce it in a substantial manner; that the act for the prevention of smoke in the District and for other purposes, approved February 2, 1899, be amended so as to include railway locomotives and steamboats; and that regulations be promulgated looking toward the supervision of the baby farms and other places where children are being kept for pay.

Respectfully submitted.

C. R. HOLMAN,
Chief Sanitary Inspector.

APPENDIX F.

MISCELLANEOUS TABLES.

Work done by the sanitary inspection service during the fiscal year 1916-17, with reference to nature of nuisance and date of report.

	1916						1917						Total for 1916-17.	Total for 1915-16.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.		
Alleys, filthy.....	48	62	17	19	15	12	8	7	14	70	55	41	368	296
Areas.....	42	27	30	23	17	9	4	5	7	15	33	25	237	196
Cellars.....	45	32	30	21	16	8	16	17	17	20	30	40	292	283
Fowls and pigeons.....	50	50	43	27	23	19	15	25	19	15	23	33	342	325
Lots:														
Filthy.....	51	56	25	29	6	2	15	6	11	59	38	26	324	407
Stagnant water.....	50	32	7			2	3		4	37	6	21	162	165
Manure accumulations.....	32	26	9	3	1		3	7	22	10	5	12	130	104
Manure receptacles.....	37	28	27	7	4	2	3	1	108	24	10	11	262	158
Plumbing defective.....	13	6	20	11	4	4	14	11	3	6	10	9	111	136
Premises unwholesome.....	56	44	33	25	19	29	21	20	28	33	39	50	397	374
Pri.ies:														
Full.....	9	5	13	2	3	6	3	3	13	6	3	6	72	170
Leaky boxes.....	9	4	7	1	3			2	4			7	41	118
Unlawful.....	6	8	8	26	14	2	11	26	72	36	11	13	233	225
Roofs, leaky.....	11	11	12	3	7	10	11	6	6	5	3	7	92	119
Sewer connections.....	25	7	7	40	26	182	7	21	26	40	28	17	426	143
Sewers, obstructed.....	116	90	87	93	94	92	63	70	113	104	98	119	1,139	946
Sheds, filthy.....	128	131	148	74	77	85	105	88	143	125	149	125	1,378	1,196
Stables.....	54	22	10	4	8	4	8	7	28	9	7	16	177	153
Yards, filthy.....	362	305	305	206	166	196	228	197	326	267	278	241	3,077	3,180
Water-closets.....	121	130	116	103	111	108	62	153	136	79	103	101	1,323	1,209
Weeds.....	335	293	48	8						1	7	18	710	706
Unclassified.....	65	59	59	84	51	36	25	27	58	51	27	50	592	575

Number and character of inspections by the sanitary inspection service during the fiscal year 1917, with corresponding data for the preceding year.

	1915-16	1916-17
Inspections not on complaint:		
Baby farms.....	49	43
Bathing establishments.....		93
Barber shops.....	1,161	1,085
Cemeteries.....	10	39
Hospitals.....	121	108
House-to-house.....	6,279	4,238
Lodging and tenement houses.....	161	223
Laundries.....	755	1,460
Printing offices.....	394	406
Pri.ies.....	2,425	1,177
Public baths.....	6	2
Playgrounds.....	29	46
Public buildings.....	60	94
Sewage-disposal systems.....	150	174
Stables.....	735	1,243
Schools.....	480	565
Tailor shops.....	143	130
Theaters.....	70	90
Undertaking establishments.....		6
Unclassified inspections.....	131	417
Total.....	13,159	11,639
Inspections on complaint.....	9,226	12,161
Reinspections.....	16,005	16,385
Official calls.....	15,605	16,992
Notices served outside of assigned inspection districts.....	2,196	2,466
Total.....	56,191	59,643

Systematic inspections made by the sanitary inspectors during the fiscal year ended June 30, 1917.

	1916						1917						Total for 1916-17.	Total for 1915-16.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.		
Baby farms.	2	.....	6	7	1	.....	1	9	3	2	.....	12	43	49
Bal'ing establishments.	.....	.....	.....	.....	.....	.....	.....	.....	14	32	33	14	93	.....
Barber shops.	26	43	117	31	264	219	150	32	52	50	63	38	1,085	1,161
Cemeteries.	.....	.....	.....	.....	.....	1	.....	7	22	6	3	.....	39	10
Hospitals and asylums.	3	.....	.....	.....	44	44	25	.....	2	1	29	4	108	121
House-to-house.	263	274	362	336	322	404	372	388	462	331	459	255	4,238	6,279
Lodgings and tenements.	57	.....	5	.....	69	40	1	.....	45	6	.....	.....	223	161
Laundries.	.....	379	529	277	271	.....	1	.....	.....	.....	2	1	1,460	755
Privies.	49	19	42	64	100	53	170	134	224	127	93	102	1,177	2,425
Public baths.	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	2	6
Public buildings.	.....	.....	.....	.....	.....	15	33	46	.....	.....	.....	.....	94	60
Playgrounds.	8	.....	1	5	.....	4	.....	.....	.....	11	2	15	46	29
Printing offices.	16	.....	5	15	13	91	25	81	68	44	28	20	406	394
Public schools.	2	.....	129	18	.....	55	33	148	36	38	63	43	565	480
Sewage disposals.	7	.....	1	1	11	54	3	1	21	73	2	.....	174	150
Stables.	192	338	113	37	55	91	1	8	312	77	9	10	1,243	735
Tailor shops.	.....	.....	.....	10	5	19	.....	24	1	.....	33	38	130	143
Theaters.	7	.....	1	2	1	.....	45	17	13	.....	3	1	90	70
Undertaker establishments.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6	.....	6	.....
Unclassified inspections.	62	25	19	19	27	67	95	34	27	38	50	47	417	131

Marine products received, inspected, and condemned in the District of Columbia during the fiscal year ending June 30, 1917.

	Arrivals.	Inspections.	Condemnations.		
			On inspection.	On request.	
Bass.....	barrels..	929	878	3	
Bluefish.....	do.	144 $\frac{1}{2}$	137 $\frac{1}{2}$	1 $\frac{1}{2}$	$\frac{1}{2}$
Butterfish.....	do.	1,480 $\frac{1}{2}$	1,304	14 $\frac{1}{2}$	11
Carp.....	single.	20,349	19,352	97	71
Catfish.....	bunches.	33,618	32,268	49	
Croakers.....	barrels.	4,264 $\frac{1}{2}$	3,940 $\frac{1}{2}$	6 $\frac{1}{2}$	22
Eels.....	bunches.	4,955	4,777	1	
Flounders.....	barrels.	290 $\frac{1}{2}$	286 $\frac{1}{2}$	2 $\frac{1}{2}$	
Herring.....	single.	1,689,193	1,519,759	3,860	
Jacks.....	do.	7,769	7,369	60	
Macarel.....	barrels.	387 $\frac{1}{2}$	379 $\frac{1}{2}$	$\frac{1}{2}$	5
Mullet.....	bunches.	1,391	1,346	28	18
Perch.....	do.	70,468	67,976	398	1,091
Pike.....	do.	3,416	3,276		
Rockfish.....	do.	41,313	39,815	45	18
Shad.....	single.	231,882	219,886	83	151
Trout.....	barrels.	14,709 $\frac{1}{2}$	14,125	36 $\frac{1}{2}$	26
Whiting.....	do.	918 $\frac{1}{2}$	902 $\frac{1}{2}$	5	
Oysters.....	bushels.	237,030	224,634	206	52
Oysters.....	gallons.	89,684	79,520	205	131
Clams.....	barrels.	4,632	3,970	6 $\frac{1}{2}$	2
Crabs.....	do.	6,869	6,466	320 $\frac{1}{2}$	191
Crab meat.....	gallons.	26,887	22,348	118 $\frac{1}{2}$	118
Pollock.....	boxes.	23	21		
Halibut.....	do.	130	129	$\frac{1}{2}$	1 $\frac{1}{2}$
Haddock.....	do.	155	148		
Ducks and geese.....	single.	8,148	7,843	18	4
Soft crabs.....	boxes.	605	553	2	2
Buz heads.....	barrels.	92	89	2	
Mud shad.....	do.	466	410	5 $\frac{1}{2}$	
Salmon.....	boxes.	29	28		
Mus. rats.....	single.	1,380	1,305	12	
Lings.....	barrels.	1,233	1,158	7	
Spots.....	do.	257	238 $\frac{1}{2}$	3 $\frac{1}{2}$	1
Tilfish.....	do.	148 $\frac{1}{2}$	147		
Porgies.....	do.	54 $\frac{1}{2}$	53 $\frac{1}{2}$		
Turtles.....	single.	1,268	1,222	14	
Sturgeon.....	do.	39	38		

Marine products received, inspected, and condemned in the District of Columbia during the fiscal year ending June 30, 1917—Continued.

		Arrivals.	Inspections.	Condemnations.	
				On inspection.	On request.
Shrimp.....	barrels.....	34½	34½	.....	2½
Drumfish.....	boxes.....	55	55	.....	.....
Sheepshead.....	barrels.....	5	5	.....	.....
Watermelons.....	single.....	284, 445	274, 015	17, 767	.....
Hotfish.....	barrels.....	20½	20	.....	.....
Sheepshead.....	do.....	3	3	.....	.....
Kingfish.....	boxes.....	19	19	.....	.....
Smelts.....	do.....	113	111	.....	.....
Ciscoes.....	do.....	1	1	.....	1
Hake.....	do.....	19	19	.....	.....
Tulifishes.....	do.....	15	15	.....	.....
Codfish.....	barrels.....	1	1	.....	.....
Sheepshead.....	boxes.....	1	1	1	.....

Food other than marine products condemned in the District of Columbia during the fiscal year ending June 30, 1917.

		Con- demned by request.	Con- demned on inspection.	Total.
Beef.....	pounds.....	566	496½	1, 062½
Beef kidneys.....	do.....	.....	19½	19½
Mutton.....	do.....	650	50	700
Lamb.....	do.....	5½	153	158½
Veal.....	do.....	140	103½	243½
Pork.....	do.....	35	276½	311½
Liver.....	do.....	6	177	183
Sausage.....	do.....	105	285½	390½
Shoulder.....	do.....	.....	5	5
Ham.....	do.....	12	74	86
Chitterlings.....	do.....	.....	92½	92½
Pigs feet.....	do.....	.....	35	35
Chickens.....	number.....	61	342	403
Turkeys.....	do.....	.....	4	4
Ducks.....	do.....	42	8	50
Birds.....	do.....	.....	3	3
Rabbits.....	do.....	363	560	923
Apples.....	bushels.....	42	¾	42¾
Peaches.....	do.....	103	74½	177½
Plums.....	do.....	1	.....	1
Dried fruit.....	pounds.....	.....	337	337
Raccoon.....	number.....	2	.....	2
Oranges.....	dozen.....	72½	74	146½
Squirrels.....	number.....	1	.....	1
Mangoes.....	crates.....	3	.....	3
Grapes.....	pounds.....	30	.....	30
Berries.....	quarts.....	1, 105	289	1, 394
Cherries.....	do.....	64	.....	64
Cantaloupes.....	number.....	15, 105	2, 886	17, 991
Watermelons.....	do.....	2, 400	10	2, 410
Pineapples.....	do.....	390	9	399
Grapefruit.....	do.....	1, 575	298	1, 873
Brussels sprouts.....	crates.....	20	.....	20
Beets.....	barrels.....	3	.....	3
Celery.....	bunches.....	.....	150	150
Nut kernels.....	gallons.....	20	.....	20
Radishes.....	bunches.....	600	250	850
Lettuce.....	number.....	420	4, 300	4, 720
Cabbage.....	do.....	.....	25	25
Cymblings.....	do.....	.....	175	175
Eggplants.....	do.....	26	1, 150	1, 176
Cauliflower.....	do.....	.....	20	20
Cucumbers.....	do.....	15, 922	4, 975	20, 897
Okra.....	quarts.....	112	30	142
Mushrooms.....	do.....	.....	32	32
Hot faces.....	number.....	45	.....	45
Spinach.....	bushels.....	3	6	9
Keats.....	number.....	3	.....	3
Opossum.....	do.....	8	.....	8

Food other than marine products condemned in the District of Columbia during the fiscal year ending June 30, 1917.

		Con- demned by request.	Con- demned on inspection.	Total.
Potatoes.....	bushels..	74	58	132
Peas.....	do.....	88	22	110
Beans.....	do.....	122	118	240
Turnips.....	do.....	1	15	16
Tomatoes.....	do.....	86½	1½	88
Pears.....	do.....	20½	.....	20½
Onions.....	do.....	9	.....	9
Peppers.....	dozen.....	8	1	9
Crabs.....	single.....	750	783	1,533
Crab meat.....	gallons.....	45	1½	46½
Pies.....	number.....	.....	164	164
Cakes, buns, etc.....	pounds.....	.....	30	30
Corn.....	dozen.....	15	.....	15
Cheese.....	pounds.....	.....	25	25
Eggs.....	number.....	2,080	49	2,129
Butter.....	pounds.....	52½	.....	52½
Lard.....	do.....	40	.....	40
Fish.....	do.....	4,152	211	4,363
Fish.....	number.....	.....	26	26
Fish.....	bunches.....	.....	49	49
Fish.....	barrels.....	4½	4½	9½
Bacon.....	pounds.....	.....	15	15
Oysters.....	gallons.....	62	2½	64½
Oysters.....	bushels.....	.....	16	16
Clams.....	number.....	.....	96	96
Pickles.....	do.....	200	100	300
Geese.....	do.....	13	.....	13
Crabs.....	barrels.....	.....	2½	2½
Sweet potatoes.....	bushels.....	2½	.....	2½
Asparagus.....	bunches.....	675	74	749
Parsley.....	do.....	700	.....	700
Potato chips.....	pounds.....	.....	1	1
Salt.....	do.....	.....	66	66
Milk.....	gallons.....	2½	.....	2½
Canned goods.....	number.....	.....	771	771
Preserves.....	pounds.....	.....	59	59
Cereals.....	packages.....	.....	13	13
Candy.....	pounds.....	.....	3,354½	3,354½
Flour.....	do.....	.....	196	196
Crackers and cracker dust.....	do.....	.....	108	108
Lemonade.....	gallons.....	.....	11	11

Pound report for fiscal year 1917.

Months.	Animals impounded.								Disposition.							
	Horses.	Cows.	Dogs.			Cats.			Grand total.	Dogs.					Cats killed.	Total.
			Captured.	Surrendered.	Total.	Captured.	Surrendered.	Total.		Killed.	Redeemed.	Sold.	Returned.			
1916.																
July.....			85	212	297	6	815	821	1,118	284	9	5	....	821	1,118
August.....	1		203	228	431	2	460	462	893	362	33	28	2	462	893	
September.....	2		156	115	271	6	232	238	509	227	25	28	2	238	509	
October.....			204	78	282	4	166	170	452	160	61	38	3	170	452	
November.....			148	68	216	3	131	134	350	145	46	31	2	134	350	
December.....			74	62	136	....	79	79	215	103	17	27	....	79	215
1917.																
January.....			136	76	212	18	94	112	324	176	24	9	1	112	324	
February.....			83	54	137	49	108	157	294	123	11	10	....	157	294
March.....			144	75	219	17	242	259	478	158	45	9	1	259	478	
April.....			175	99	274	31	404	435	709	228	37	11	....	435	709
May.....			112	117	229	37	579	616	845	209	18	7	....	616	845
June.....	1		138	187	325	14	487	501	826	284	13	17	....	505	826
Total.....	3	1	1,658	1,371	3,029	187	3,797	3,984	7,013	2,464	339	220	112	3,984	7,013	

¹ One escaped.

Money collected by the poundmaster during the fiscal year 1917.

Months.	For food.	For fees.	From sales.	Total.
1916.				
July.....		\$18.00	\$10.00	\$28.00
August.....	\$1.00	68.00	23.00	92.00
September.....	.50	54.00	25.50	80.00
October.....		122.00	26.50	148.50
November.....		92.00	39.50	131.50
December.....		34.00	28.50	62.50
1917.				
January.....		48.00	18.00	66.00
February.....		22.00	14.00	36.00
March.....		90.00	15.00	105.00
April.....		76.00	15.50	91.50
May.....		36.00	11.00	47.00
June.....		28.00	25.00	53.00
Total.....	1.50	688.00	251.50	941.00

Statement of the work performed in the chemical laboratory during the fiscal years 1916 and 1917.

	Total.		Adulterated or misbranded.		Not adulterated or misbranded.	
	1916	1917	1916	1917	1916	1917
Air.....		2				
Alcohol ¹	1					
Ammonia ¹	1	7				
Apple, suspected to contain poison ¹		1				
Apple butter, suspected to contain poison ¹		1				
Asparagus, canned.....	1	1				1
Beans, canned.....	1	1				1
Beans, Lima, canned.....		6		2		4
Beer ¹	8					
Bevo ¹		1				
Blackberries.....	1	1			1	
Blackberry cordial, suspected to contain poison ¹	1	1				
Bordeaux mixture ¹	1					
Bread.....	55	46		17	55	29
Bread, net weight.....		13				
Butter.....	65	84	4	32	61	52
Do. ²	1				1	
Butter, renovated.....	1				1	
Calomet tablets ¹	1					
Candy.....	72	83			72	83
Do. ¹	1					
Capsule ¹		1				
Chicken ¹		1				
Chinosol tablets ¹	1	1				
Chloroform liniment.....	1	42		29	1	13
Clothing ¹	1	5				
Clothing, bed ¹	2					
Cloves, oil of (for comparative purposes).....	1				1	
Coal-tar disinfectants ¹	4					
Cocoa.....		1				1
Coffee.....	1	84		2	1	82
Coffee, suspected to contain poison ¹		1				
Cream.....	316	348	194	232	122	116
Cream, sour, suspected to contain poison.....		1				
Cream, for acidity.....		1				
Cream, identification, illegal shipments.....		24				
Deposit, from wall of swimming pool.....		1				
Disinfectants (for contagious disease service).....	2					
Epsom salts ¹	1					
Flaxseed.....	1				1	
Flour.....	1					
Gasoline ¹	1					
Gingersnaps, suspected to contain poison.....	9	1				
Grape juice.....	27				27	
Hair tonic.....	36		4		32	
Hamburger steak.....		3				3
Honey.....	1	1			1	1

¹ Examined for the police department.² Examined for the purchasing officer.

Statement of the work performed in the chemical laboratory during the fiscal years 1916 and 1917—Continued.

	Total.		Adulterated or misbranded.		Not adulterated or misbranded.	
	1916	1917	1916	1917	1916	1917
Ice.....	1				1	
Ice cream.....	3	1				
Ice-cream cones.....	1					
Iodine, tincture of.....	11	4	1	3	10	1
Iron, quinine, and strychnine, elixir of.....		46		43		3
Jelly ¹	1					
"Justit," for flavoring.....	1				1	
Lard.....	177		30		147	
Liquid, suspected to be beer ¹	8	8				
Liquid, suspected to contain alcohol ¹	2					
Liquid, suspected to contain gasoline and acid ¹		1				
Liquid, suspected to contain poison ¹		1				
Liquid, suspected to contain poison ²		1				
Loganberry juice.....	1				1	
Magnesium citrate, solution of.....		45		24		21
Mellicine ¹	1	1				
Mercurial ointment.....		26		14		12
Milk.....	8,304	8,315	703	1,011	7,601	7,304
Milk, for experimental purposes.....	22	11			22	11
Milk, identification in illegal shipments.....		32				
Milk, powder.....	1				1	
Milk, suspected to contain poison.....		1				
Milk, examined for preservatives.....		20				30
Milk, suspected to be made from milk powder.....		3				3
Milk, condensed.....		8		1		7
Noalco ¹		1				
Oil, cottonseed.....		1				1
Oil, olive.....	17	48			17	48
Oil, table.....	1				1	
Peaches, suspected to contain poison ¹		1				
Peas, canned.....		1				1
Pepsin, essence of ¹	1		1			
Pepsin, essence of, for comparative purposes.....	1				1	
Pickles, suspected to contain poison.....		2		1		1
Pilo.....		1				
Pills ¹		2				
Pork and beans.....	1				1	
Pigeon, body of ¹	1					
Powders.....	3	2				
Residue, in earthenware jars ¹	5					
Residue, in tumbler.....		1				
"Reichsult" ¹		1				
Sand, for moisture.....		4				
San twich, suspected to contain poison ¹		1				
Sausage.....	1				1	
Sausage, link.....		1				
Sausage meat.....		6		1		5
Sausage, suspected to contain poison ¹		1				
Sediment in milk bottle.....		1				
Sirup, cane and maple.....	9		1		8	
Sirup, maple.....	7				7	
Soup ¹	1					
Stick ¹		1				
"Stink" bombs ¹		1				
Sugar.....	1					
Sugar, cane and maple.....	4					4
Sugar, maple.....	2					2
Sugar, suspected to contain poison ¹	5					5
Tablet triturates ¹		1				
Vanilla, extract of.....		1				
Vinegar.....	1	2		1		1
Walnuts.....						
Water.....	1		1			
Water, from swimming pool.....	160	149	49	55	111	94
Water, from sewer.....		1				
Water, from tap.....		2				
Water, toilet.....		1				
Whisky ¹	53				53	
Wilson's U. S. condiment ¹	1	1				
Zinc ointment.....		23		15		8
Total.....	9,436	9,543				

¹ Examined for the police department.² Examined for the coroner.

REPORT OF THE HEALTH OFFICER.

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Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days).

Character of service.	Employees.		Salaries.		Traveling expenses.		Incidentals.		Total.	
	1916	1917	1916	1917	1916	1917	1916	1917	1916	1917
I. General supervision.....	2	2	\$6,500.00	\$6,500.00	\$416.65	\$437.99	\$1,721.13	\$1,821.30	\$6,916.65	\$6,937.99
II. Clerical service.....	8	17	9,720.00	9,100.00	16.66	3.38	702.85	615.79	11,427.79	10,524.68
III. Registration of vital statistics.....	4	4	4,400.00	4,400.00	.....	.....	.....	.....	5,102.85	5,016.54
IV. Messenger.....	2	2	1,200.00	1,200.00	.....	11.88	.....	.....	1,200.00	1,211.88
V. Sanitary inspection:										
General, including supervisory.....	13	113	15,000.00	14,700.00	244.30	356.50	394.11	250.43	15,398.41	15,306.54
Smoke.....	1	1	1,200.00	1,200.00	22.69	22.32	26.94	31.05	1,249.63	1,253.37
Eight hours.....	4	4	4,500.00	4,500.00	45.00	52.17	65.00	22.50	4,610.00	4,574.67
VI. Food inspection:										
Supervisory.....	2	34	2,500.00	4,420.00	96.81	283.29	.....	.....	2,596.81	4,703.20
Veterinary.....	6	6	6,400.00	6,300.00	3,466.22	4,055.21	523.33	605.79	9,866.32	10,355.21
Markets.....	6	7	6,000.00	7,000.00	180.54	154.44	.....	.....	6,703.87	7,703.23
Chemical laboratory.....	3	3	3,800.00	3,800.00	.....	.....	4 258.47	314.05	4,433.81	4,598.25
Dairies.....	2	2	2,200.00	2,200.00	60.61	36.92	375.34	484.20	2,290.61	2,236.92
VII. Contagious disease service:										
Supervisory.....	1	1	1,786.50	1,825.50	240.00	319.35	.....	.....	2,026.50	2,144.85
Clerk.....	1	1	1,436.50	1,436.50	.....	.....	.....	.....	496.50	496.50
Inspectors.....	3	6	5,746.13	5,726.25	77.95	127.01	.....	.....	5,824.08	5,853.26
Watchmen.....	18	1	774.50	7.00	.....	.....	.....	.....	774.50	7.00
Incidental expenses.....	.....	.....	.....	.....	.....	.....	880.58	2,980.01	880.58	2,980.01
Smallpox hospital—										
Matron.....	1	1	756.50	586.50	.....	.....	.....	.....	756.50	586.50
Nurse.....	1	2	232.50	250.00	.....	.....	.....	.....	232.50	250.00
Janitor.....	1	1	104.50	104.50	.....	.....	.....	.....	64.75	104.50
Lab'rs.....	2	2	64.75	33.00	.....	.....	.....	.....	33.00	33.00
Incidental expenses.....	.....	.....	.....	.....	.....	.....	1,281.46	898.27	1,281.46	898.27
Quarantine station—										
Matron.....	1	1	733.00	608.00	.....	.....	.....	.....	733.00	608.00
Nurse.....	1	2	202.50	142.50	.....	.....	.....	.....	142.50	142.50
Janitor.....	1	1	131.50	131.50	.....	.....	.....	.....	202.50	202.50
Lab'rs.....	2	2	41.00	9.00	.....	.....	.....	.....	41.00	9.00
Incidental expenses.....	.....	.....	.....	.....	.....	.....	912.54	693.16	912.54	693.16
Ambulance service—										
Drivers.....	2	2	790.00	768.00	.....	.....	.....	.....	790.00	768.00
Stableman.....	1	1	273.75	266.50	.....	.....	882.07	742.20	273.75	266.50
Incidental expenses.....	.....	.....	.....	.....	.....	.....	.....	.....	882.07	742.20

¹ Cost of samples.

² One-half time, \$500.

³ One \$720 clerk; one-half time, \$500.

⁴ Four-fifths time of chief clerk.

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

Character of service.	Employees.		Salaries.		Traveling expenses.		Incidentals.		Total.	
	1916	1917	1916	1917	1916	1917	1916	1917	1916	1917
VIII. Leper hospital:										
Nurse.....		1		\$720.00						\$720.00
Matron.....		2		300.00						300.00
Laborers.....		8		67.50						67.50
Watchmen.....		8		87.75						87.75
Incl tentals.....								\$749.44		749.44
IX. Disinfecting ser. fee:										
Inspectors.....	3	3	\$2,036.00	2,037.00					\$2,036.00	2,037.00
Inspector.....	(1)	2	(1)	(3)					738.37	1,466.00
Laborer.....	(3)	2	273.75	1,466.00					928.00	273.50
Watchman.....	1	1	7.00	7.00					273.75	273.50
Incl tentals.....										
X. Bacteriological laboratory:										
Bacteriologist.....	2	3	2,070.00	2,539.50		\$78.23			2,070.00	2,617.73
Assistant bacteriologist.....	1	1	1,200.00	1,200.00					1,200.00	1,200.00
Inspector.....	1	1	1,000.00	1,000.00		4.35			1,200.00	1,004.35
Skilled laborer.....	1	1	720.00	720.00					720.00	720.00
Laborer.....		1		78.00						78.00
Incl tentals.....									612.05	485.28
Replacements.....									996.22	
XI. Public crematorium:										
Super isry inspector.....	1	1	197.50	181.50					197.50	181.50
Superintendent.....	1	1	1,023.75	1,054.75					1,023.75	1,054.75
Incl tentals.....									602.92	394.64
XII. Pound ser fee:										
Chief clerk.....	4	4	1,200.00	1,500.00					1,200.00	1,500.00
Poundmaster.....	1	1	2,000.00	2,400.00					2,000.00	2,400.00
Employees.....	4	4							1,269.85	1,079.38
Incl tentals.....										
Total.....			\$7,826.73		\$4,867.43		13,795.29		99,877.42	

1 One disinfecter, 1803 days, at \$2.50 per dlem, \$466.87; 1 disinfecter, 43 months, at \$65 per month, \$282.50; total, \$759.37.

2 Now classified as disinfectors.

3 One disinfecter, 1,436 hours, at 25 cents per hour, \$359; 1 disinfecter, 43 months, at \$60 per month, \$270; total, \$629.

4 One-fifth time of chief clerk of health department.

REPORT OF THE HEALTH OFFICER.

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Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1916, with corresponding figures for the preceding year (based on 306 working days).

I. SUPERVISORY SERVICE.

	Annual average.		Daily average.	
	1916	1917	1916	1917
Health officer.....	\$4,000.00	\$4,000.00	\$13.07	\$13.07
Assistant health officer.....	2,500.00	2,500.00	8.10	8.10
Total cost of transportation.....	416.55	437.99	1.36	1.43

II. GENERAL CLERICAL SERVICE.

Units of work.	Annual average.		Daily average.	
	1916	1917	1916	1917
Letters received.....	10,146	10,664	33.1	34.8
Letters sent.....	10,340	10,601	33.7	34.6
Oral complaints received.....	3,588	4,147	11.7	13.5
Special reports indexed.....	1,299	1,414	4.2	4.6
Employees.....	8	7		
Total cost of service.....	\$9,720.00	\$9,100.00	\$31.76	\$29.74
Total cost of incidentals (approximate).....	1,721.13	1,821.30	5.62	5.95
Total cost of transportation.....	16.66	3.38	.054	.011
Total cost, inclusive of undistributed cost of supervision.....	11,457.79	10,924.68	37.44	35.70

	1916	1917
The cost of transportation for supervising service was:		
Dr. Woodward, traveling.....	\$176.55	\$137.99
Dr. Norris, automobile.....	240.00	300.00
Total.....	416.55	437.99

III. REGISTRATION OF VITAL STATISTICS.

	Annual average.		Daily average.	
	1916	1917	1916	1917
Death certificates recorded:				
Local.....	6,495	6,613	21.22	21.6
Foreign.....	595	618	1.94	2.0
Birth certificates recorded.....	7,224	7,231	23.60	24.0
Stillbirth certificates recorded.....	425	432	1.38	1.4
Burial and disinterment permits issued and subsequently received and filed.....	7,418	8,028	24.24	25.9
Transcripts issued.....	1,179	1,326	3.85	4.3
Collected for transcripts.....	\$514.00	\$560.50	\$1.67	
Employees.....	4	4		
Cost of service.....	\$4,400.00	\$4,400.00	\$14.38	\$14.38
Cost of incidentals (approximate).....	702.85	616.52	2.29	2.01
Total cost exclusive of undistributed cost of supervision.....	5,102.85	5,016.52	16.67	16.39

¹ 1,121 with fee.

IV. MESSENGER SERVICE.

	Annual average.		Daily average.	
	1916	1917	1916	1917
Messenger and janitor.....	\$600.00	\$600.00	\$1.96	\$1.96
Driver.....	600.00	600.00	1.96	1.96
Cost of transportation.....		11.88		.039

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

V. GENERAL SANITARY INSPECTION SERVICE.

A. SUPERVISION.

	Fiscal year.		Daily average.		Daily average per inspector.	
	1916	1917	1916	1917	1916	1917
Chief inspector.....	1	1				
Assistant chief inspector.....	1	1				
Clerk.....	1	1				
Total salaries.....	\$2,800.00	\$3,700.00	\$9.15	\$12.09	\$9.15	

B. SANITARY INSPECTION SERVICE.

Complaints acted upon.....	7,069	8,852	22.9	28.9	2.8	2.9
Inspection on complaints.....	9,226	12,161	29.5	39.7	2.7	4.0
Reinspections.....	16,005	16,385	51.2	52.5	4.7	5.3
Official calls made.....	15,605	16,992	49.9	55.5	4.6	5.6
Notices served outside of assigned inspection districts.....	2,196	2,466	7.0	8.0	.7	.8
House-to-house inspection.....	6,279	4,238	20.1	13.8	1.9	1.4
Inspection of barber shops.....	1,161	1,085	3.7	3.5	.4	.4
Inspection of stables.....	735	1,243	2.4	4.0	.3	.4
Inspection of privies.....	2,425	1,177	7.8	3.8	.7	.4
Inspection of laundries.....	755	1,460	2.5	4.7	.3	.5
Other miscellaneous inspections.....	1,804	2,436	5.8	7.9	.6	.8
Total inspectors.....	11	10				
Total salaries.....	\$12,200.00	\$11,000.00	\$39.86	\$35.94	\$3.62	\$3.59
Cost of incidentals (approximate).....	394.11	250.43	1.26	.81	.12	.08
Cost of transportation.....	244.30	356.50	.74	1.16	.07	.12
Total cost of sanitary service, exclusive of undistributed cost of supervision.....	12,838.41	11,606.93	41.86	37.92	3.81	3.79

C. SMOKE INSPECTION SERVICE.

Places under observation.....	413	384				
Observations.....	8,173	8,530	26.11	27.87	26.11	27.87
Inspectors.....	1	1				
Total salaries.....	\$1,200.00	\$1,200.00	\$3.94	\$3.94	\$3.94	\$3.94
Cost of incidentals (approximate).....	26.94	31.05	.09	.10	.09	.10
Cost of transportation.....	22.69	22.32	.08	.07	.08	.07
Total cost of smoke service, exclusive of undistributed cost of supervision.....	1,249.63	1,253.37	4.11	4.11	4.11	4.11

D. EIGHT-HOUR FEMALE LABOR LAW INSPECTION.

Complaints acted upon.....	179	109	0.6	0.3	0.2	0.01
Inspections on complaint.....	177	112	.6	.4	.2	.01
Inspections made on the initiative of the inspector.....	9,260	11,140	29.5	36.4	9.9	12.1
Official calls made.....	33	276	.2	.9	.1	.3
Total inspectors.....	3	3				
Total clerks.....	1	1				
Total salaries.....	\$4,500.00	\$4,500.00	\$14.71	\$14.71	\$4.90	\$4.90
Cost of incidentals (approximate).....	65.00	22.50	.21	.07	.07	.02
Cost of transportation.....	45.00	52.17	.15	.17	.05	.06
Total cost of 8-hour female labor law service, exclusive of undistributed cost of supervision.....	4,610.00	4,574.67	15.06	14.94	5.02	4.98

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VI. FOOD-INSPECTION SERVICE.

	Fiscal year.		Daily average.		Daily average per inspector.	
	1916	1917	1916	1917	1916	1917
A. SUPERVISION.						
Chief inspector.....	1	1				
Assistant chief inspector.....		1				
Total salaries.....	\$2,500.00	\$3,200.00	\$8.16	\$10.46	\$4.08	\$5.23
Cost of transportation.....	96.81		.32		.16	
B. VETERINARY SERVICE.						
Dairy farms.....	1,236	1,171				
Inspections.....	4,183	4,423	13.67	14.45	2.28	2.06
Slaughterhouses.....	21	15				
Inspections.....	307	287	1.00	.94	.50	.13
Communicable diseases of animals:						
Cases reported.....	311	129	1.01	.42	.51	.06
Inspections of horse market.....	104	104	.34	.34	.17	.17
Inspectors.....	6	6				
Total salaries.....	\$6,400.00	\$6,300.00	\$20.91	\$20.59	\$3.48	\$3.23
Cost of traveling expenses (approximate).....	3,466.32		11.33		1.89	
Total cost, exclusive of undistributed cost of supervision.....	9,866.32		32.24		5.37	
C. MARKETS, STORES, LUNCH ROOMS, ETC.						
Registered at close of year.....	5,832	3,593	19.06	11.74	3.18	1.68
Under inspection during year.....	6,215	3,828	20.31	12.51	3.39	1.79
Inspections.....	44,478	42,356	163.33	138.42	27.22	19.77
Inspectors.....	6	7				
Total salaries.....	\$6,000.00	\$7,000.00	\$19.61	\$2.88	\$3.26	\$3.27
Cost of incidentals.....	523.33		1.71		.29	
Cost of transportation.....	180.54		.59		.10	
Total cost, exclusive of undistributed cost of supervision.....	6,703.87		21.91		3.65	
C. CHEMICAL LABORATORY.						
Samples analyzed.....	9,436	9,543	30.84	31.19	10.28	10.39
Samples of food.....	9,101	9,064	29.74	29.62	9.91	9.87
Samples of water.....	160	149	.52	.49	.17	.16
Samples of miscellaneous.....	175	330	.57	1.08	.19	.36
Employees.....	3	3				
Salaries.....	\$3,500.00	\$3,800.00	\$12.41	\$12.41	\$4.13	\$4.13
Cost of food samples.....	258.47					
Cost of incidentals.....	375.34		1.23		.41	
Total cost, exclusive of undistributed cost of supervision.....	4,431.81		14.49		4.83	
E. DAIRIES, AND COLLECTION OF SAMPLES.						
Inspections.....	508	725	1.66	2.37	1.66	2.37
Samples collected.....	10,284	8,729	33.91	28.53	33.91	28.53
Inspectors.....	2	2				
Salaries.....	\$2,200.00	\$2,200.00	\$7.19	\$7.19	\$3.59	\$3.59
Cost of transportation.....	60.61		.20		.10	

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

VII. CONTAGIOUS-DISEASE SERVICE.

Cases reported.	Fiscal year.		Average per day.		Daily average per inspector.	
	1916	1917	1916	1917	1916	1917
Anterior poliomyelitis.....	7	37	0.02	0.10	0.003	0.02
Epidemic cerebrospinal meningitis.....	7	20	.02	.05	.006	.01
Chickenpox.....	1,044	969	2.8	2.7	.93	.59
Diphtheria.....	868	623	2.4	1.7	.8	.4
Leprosy.....						
Measles.....	2,450	3,533	6.7	9.7	2.2	2.0
Pellagra.....	19	14	.05	.4	.02	.008
Scarlet fever.....	478	490	1.3	1.3	.43	.29
Smallpox.....	8	6	.02	.02	.006	.003
Tuberculosis.....	1,075	984	2.8	2.7	.98	.57
Typhoid fever.....	362	292	1.0	.8	.3	.2
Whooping cough.....	1,131	2,125	3.1	5.8	1.3	1.2

A. GENERAL SUPERVISION, PLACARDING, RECORDING, ETC.

Cost (exclusive of cost of service rendered by sanitary inspectors):	
1 chief inspector (363 days).....	\$1,825.50
1 clerk (175 days).....	496.50
6 inspectors (1,364 days).....	5,726.25
1 watchman (3½ days).....	7.00
Total (1,905½ days).....	8,055.25
Incidentals, printing, supplies, etc. (approximate).....	2,983.01
Cost of transportation.....	446.55
Total.....	\$11,484.81

B. SMALLPOX HOSPITAL.

Patients cared for.....	6
Hospital open, days.....	58
Service rendered, patient days.....	73
Cost:	
1 matron (330 days).....	\$586.50
2 nurses (100 days).....	250.00
1 janitor (160 days).....	104.50
2 laborers (22 days).....	33.00
Total (612 days).....	974.00
Incidentals, supplies, fuel, etc. (approximate).....	898.27
Total.....	1,872.27

C. QUARANTINE STATION.

Inmates cared for.....	6
Days quarantine station open.....	31
Service rendered, inmate days.....	40
Cost:	
1 matron (341 days).....	\$608.00
2 nurses (57 days).....	142.50
2 janitors (173 days).....	131.50
2 laborers (6 days).....	9.00
Total (577 days).....	891.00
Incidentals, supplies, fuel, etc. (approximate).....	693.16
Total.....	1,584.16

D. LEPROS HOSPITAL.

Nurse (365 days).....	720.00
Matron (365 days).....	300.00
2 laborers (45 days).....	67.50
Watchman (43½ days).....	87.75
Total (818½ days).....	1,175.25
Incidentals.....	749.44
Total.....	1,924.69

Outline of annual and average daily work of the health department of the District of Columbia, with cost, during the fiscal year 1917, with corresponding figures for the preceding year (based on 306 working days)—Continued.

E. AMBULANCE SERVICE.

Minor contagious diseases:		
Patients transported.....	464	
Days ambulance in active service.....	238	
Cost:		
2 ambulance drivers (384 days).....	\$768.00	
1 stableman (356 days).....	266.50	
Total (740 days).....	1,034.50	
Incidentals, forage, shoeing, etc. (approximate).....	742.20	
Total.....		1,776.70
Total cost, contagious disease service.....		18,639.64

VIII. DISINFECTING SERVICE.

Premises disinfected.....	1,794	
Articles disinfected at disinfecting station.....	1,486	
Cost:		
3 inspectors (735 days).....	\$2,037.00	
1 disinfecter—		
(365 days), at \$65 per month.....	780.00	
(348 days), at \$90 per month.....	684.00	
1 stableman (356 days), at 75 cents per day.....	266.50	
1 watchman (3½ days), at \$2 per day.....	7.00	
Total (1,807½ days).....	3,776.50	
Incidentals, disinfectants, forage shoeing, etc. (approximate).....	1,638.51	
Total.....		5,415.01

IX. BACTERIOLOGICAL LABORATORY.

Specimens examined.....	14,885	
Days service rendered by employees.....	1,531½	
Cost:		
3 bacteriologists (397½ days).....	2,539.50	
1 assistant bacteriologist (365 days).....	1,200.00	
1 inspector (365 days).....	1,000.00	
1 skilled laborer (365 days).....	720.00	
1 laborer (39 days).....	78.00	
Total (1,531½ days).....	5,537.50	
Incidentals, repairs to apparatus, etc. (approximate).....	485.28	
Grand total.....		6,022.78

NOTE.—The services of the bacteriologist, which are paid for from the appropriation for the contagious disease service are entered as an item of cost under "Bacteriological laboratory."

X. PUBLIC CREMATORIUM.

Bodies burned (adults, 112; infants, 181; stillborn, 257).....	550	
Days crematory was in operation.....	110	
Cost:		
1 supervisory inspector (363 days).....	\$181.50	
1 superintendent (320 days).....	1,054.75	
Total (683 days).....	1,236.25	
Incidentals, kerosene, etc. (approximate).....	394.64	
Total.....	1,630.89	
Cremations at private expense (38).....		
Fees collected for cremation at private expense.....	975.00	
Net cost of operation.....		655.89

XI. POUND SERVICE.

	Fiscal year.		Daily average.	
	1916	1917	1916	1917
All animals impounded.....	6,892	7,013	18.88	22.92
Animals collected.....	3,913	5,168	10.72	16.89
Fees collected.....	\$951.00	\$941.00	\$2.60	\$3.10
Employees.....	5	5		
Total cost of service.....	\$3,200.00	\$4,300.00	8.77	17.58
Cost of incidentals (approximate).....	1,269.85	1,079.39	3.47	3.53

¹ One-fifth time of chief clerk.

HOSPITALS AND CEMETERIES.

List of private hospitals and asylums in the District of Columbia licensed to June 30, 1917, showing location and date licensed.

HOSPITALS FOR HUMAN BEINGS.

Name.	Location.	Date licensed.
Jane B. Silvester Sanatorium.....	2005 Kalorama Road NW.....	Apr. 21, 1910
Garfield Memorial Hospital.....	Tenth Street and Florida Avenue NW.....	Feb. 18, 1911
Georgetown University Hospital.....	Thirty-fifth and N Streets NW.....	Mar. 1, 1911
Sibley Memorial Hospital.....	North Capitol and Pierce Streets NW.....	Mar. 7, 1911
Episcopal Eye, Ear, and Throat Hospital.	1147 Fifteenth Street.....	Oct. 4, 1911
Children's Hospital.....	Thirteenth and W Streets.....	Sept. 8, 1911
National Homeopathic Hospital.....	N and Kirby Streets.....	July 6, 1911
Washington Eye, Ear, and Throat Hospital.	4 Iowa Circle.....	June 14, 1913
Margaret J. Thompson and Alice M. Prentiss.	1417 Rhode Island Avenue.....	Aug. 27, 1913
Dr. H. R. Street and Ida M. Brown.....	1414 Girard Street NE.....	Nov. 21, 1913
Washington Sanitarium Hospital.....	1252 Sixth Street SW.....	July 8, 1914
Capital City Sanitarium.....	Fifteenth Street and Ohio Avenue NW.....	Nov. 5, 1915

HOSPITALS FOR ANIMALS.

C. B. Robinson.....	222 C Street NW.....	Dec. 6, 1909
Cecil French.....	Twentieth Street and Park Road NW.....	Feb. 8, 1910
J. P. Turner.....	916 O Street NW.....	Feb. 18, 1910
D. E. Buckingham.....	2115 Fourteenth Street NW.....	Mar. 25, 1910
Reid R. Ashworth.....	36 New York Avenue, NW.....	July 7, 1916
Bosley & Weeks.....	309 Sixth Street NW.....	June 23, 1910
Theo. Schondau.....	20 Decatur Street NE.....	Oct. 25, 1911
John P. Keifer.....	2330 Twelfth Street NE.....	June 14, 1913
W. P. Collins.....	2130 P Street NW (rear).....	Mar. 7, 1914
Reid R. Ashworth.....	1226-1228 North Capitol Street.....	June 30, 1917

ASYLUMS FOR HUMAN BEINGS.

Florence Crittenden Home.....	218 Third Street NW.....	Mar. 25, 1910
Home for Incurables.....	S Street between Thirty-first and Thirty-second NW.....	July 19, 1910
Children's Country Home.....	Grant Road NW.....	Do.
St. Vincent's Orphan Asylum.....	Edgewood, D. C.....	Do.
Masonic and Eastern Star Home.....	Takoma, D. C.....	Feb. 24, 1911
St. Ann's Infant Asylum.....	2300 K Street NW.....	Do.
St. Joseph's Male Orphan Asylum.....	924 H Street NW.....	Mar. 6, 1911
Epiphany Church Home.....	1221 Massachusetts Avenue NW.....	Mar. 23, 1911
Edes Home.....	2929 N Street NW.....	Mar. 25, 1911
Woman's Christian Association.....	1719 Thirteenth Street NW.....	Mar. 29, 1911
Methodist Home.....	601 M Street NW.....	Apr. 12, 1911
Presbyterian Home.....	1420 M Street NW.....	May 13, 1911

List of cemeteries.

Addison Chapel.	Green Vale.	National Capital Hebrew Association.
Adas Israel.	Harmeny.	Oak Hill.
Above Shalom.	Hillsdale.	Payne's.
Bantist.	Holy Road.	Potters' Field.
Battle Ground. ¹	Jones Chapel.	Prospect Hill.
Blue Plains. ²	Macphelia. ¹	Rock Creek.
Christian. ¹	Macedonia.	St. Albans. ¹
Congressional.	Methodist, Tennallytown.	St. Mary's.
Elesavetgrad Cemetery Association.	More's.	Talmud Torah.
Georgetown Convent.	Mount Olivet.	United States Soldiers' Home.
Glenwood.	Mount St. Sepulchre, Franciscan Cemetery.	Visitation Convent.
Government Hospital for the Insane.	Mount Zion.	Washington Hebrew.
		Woodlawn.

Crematories.

J. William Lee's.

District of Columbia public crematory.

¹ No interments during the year.² For indigents.

AVERAGE GRADES OF MILK DISTRIBUTED IN THE DISTRICT OF COLUMBIA DURING THE YEAR ENDING JUNE 30, 1917, ARRANGED ACCORDING TO NAMES OF DISTRIBUTORS.

For a statement of the method of determining these grades see United States Public Health Reports, volume 28, No. 8, February 21, 1913.

A perfect grade (100) is made up as follows:

Dairy farms on which milk was produced; equipment and methods.....	162
Dairy cattle on farms on which milk was produced; health and cleanliness.....	162
Dairy from which milk is distributed to consumers; equipment and methods..	162
Nutritive value of milk as determined by chemical analyses.....	162
Wholesomeness, cleanness, and keeping qualities, as determined by bacteriological analyses.....	33
Total.....	100

Name of dealer.	Dealer's description of class of milk.	Health office grade.
Alden, H. L.....	Pasteurized milk.....	68.98
Alsop, B. F.....	Milk.....	75.51
Auth Brothers.....	do.....	85.82
Bassford, M. I.....	do.....	80.53
Bayne, Thomas.....	do.....	71.75
Black, H. L., & Son.....	Pasteurized milk.....	73.81
Do.....	Special milk.....	79.02
Blundon, F. A.....	Milk.....	87.58
Bowles, J. J.....	Pasteurized milk.....	66.58
Do.....	Milk.....	70.70
Boyle, J. & C.....	do.....	70.19
Brown, A. J.....	do.....	81.48
Carter, J. J.....	do.....	67.21
Castle, J. W.....	do.....	65.21
Cuomore, P. A.....	do.....	60.70
Dade, C. G., & Co.....	Pasteurized milk.....	57.79
Do.....	Special milk.....	76.05
De Argo, Peter.....	Milk.....	77.16
Dorr, J. V. & George.....	do.....	81.05
Estes, J. W.....	Pasteurized milk.....	78.42
Gormley, P. F.....	Milk.....	75.30
Gregg, J. W.....	Pasteurized milk.....	81.09
Haicht, A. R.....	Pure milk.....	81.65
Healey, Thomas.....	Milk.....	68.42
Heflin, M. C.....	Pure milk.....	68.33
Heine, Fred. W.....	Milk.....	80.55
Hill, C. T.....	do.....	76.61
Hornor, C. V.....	do.....	71.23
Horrigan, Albert.....	Special milk.....	69.79
Hoyle, Robert.....	Milk.....	81.56
Hutchinson, B. T.....	Pure milk.....	88.48
Johnson, David.....	Milk.....	81.06
Judd & Hodges.....	Quality milk.....	88.71
Keefe, J. M.....	Milk.....	77.86
Kiplinger, W. B.....	do.....	83.67
Landon, J. S.....	do.....	79.50
Leapley, C. E.....	Pure milk.....	78.81
Malone, W. L.....	Milk.....	81.01
Marcy, Julius.....	do.....	61.71
Markham, Edward.....	do.....	79.61
Mayhew, L. E.....	do.....	77.66
Mulligan, S. C.....	do.....	73.82
Murphy, J. W.....	do.....	70.46
Do.....	Tuberculin-tested milk.....	84.28
Myers, J. W.....	Milk.....	82.82
Oak, M. E.....	do.....	66.30
Orison, J. S.....	do.....	67.08
Oyster, G. M.....	Pasteurized milk.....	87.36
Do.....	Special milk pasteurized.....	87.83
Do.....	Certified milk.....	97.98
Reilly, J. P.....	Milk.....	83.05
Richter, John.....	do.....	75.05
Ruppert, J. H.....	do.....	80.04
Selkman, W. R.....	Pasteurized milk.....	65.87
Shawn, M. L.....	Tuberculin-tested milk.....	63.02
Shults, Herman.....	Pasteurized milk.....	85.45
Shumate, G. H.....	Milk.....	77.66

¹ Figures represent only a portion of the year. Omissions due to insufficient data in the Health Department to fairly compute a grade, or the firm started in business after the beginning of the year.

AVERAGE GRADES OF MILK DISTRIBUTED IN THE DISTRICT OF COLUMBIA DURING THE YEAR ENDING JUNE 30, 1917—Continued.

Name of dealer.	Dealer's description of class of milk.	Health office grade.
Simpson, W. A.....	Pasteurized milk.....	74.70
Soper, R. F.....	Milk.....	84.14
Storm & Sherwood.....	Pasteurized milk.....	81.75
Do.....	Famous special milk.....	¹ 80.65
Tanner, A. T.....	Pasteurized milk.....	49.48
Tenley, A. C.....	Milk.....	84.85
Thompson, Corbin.....	Pasteurized milk.....	71.24
Do.....	Special raw milk.....	68.47
Do.....	Woodbridge milk.....	64.71
Thompson Sisters.....	Milk.....	73.51
Do.....	Pasteurized in bottle.....	86.39
Do.....	Special milk.....	80.05
Wahler Bros.....	Milk.....	¹ 84.70
Walker Gordon Laboratory.....	Table milk.....	97.93
Welker, W. E.....	Pure milk.....	83.17
Wise Bros.....	Pasteurized milk.....	82.47
Do.....	Pasteurized special milk.....	81.90
Do.....	Special raw milk.....	86.17

¹ Figures represent only a portion of the year. Omissions due to insufficient data in the Health Department to fairly compute a grade, or the firm started in business after the beginning of the year.

APPENDIX G.

LIST OF PHYSICIANS ENTITLED TO PRACTICE MEDICINE IN THE DISTRICT OF COLUMBIA SEPTEMBER 1, 1917.

Abbe, Truman.	Barnes, Noble P.	Bogle, John C.	Burns, Wm. P.
Albot, Griffith E.	Barnes, Wm. M.	Bogle, Kate B.	Burritt, Alice.
Alernethy, Eric A.	Barnesby, Walter R.	Boomhower-Guibord, Albert S.	Burritt, Martha Clark.
Acker, George N.	Barnhart, Grant S.	Borden, Dan L.	Burwell, Hartford R.
Adams, Jesse Lee.	Barrett, P. M.	Borden, Wm. C., U. S. A.	Bush, Daniel P.
Adams, Roy D.	Barrie, George.	Boss, Rufus D.	Butler, Arthur R.
Adams, Samuel S.	Barrington, Richard I.	Bost, Thomas C.	Butler, Chas. S., U. S. N.
Ainsworth, F. C.	Barry, Edm. und.	Boswell, Archie W.	Butler, E. Flagg.
Alderman, Zenas W.	Barry, John P.	Boteler, William C.	Butler, William K.
Alexander, Rose.	Barstow, Edward C.	Bovee, J. Wesley.	Butterfield, Elmore E.
Alleger, Walter W.	Barstow, Kate D.	Bowen, William S.	Butz, Abraham D.
Allen, Albert.	Barton, Wilfred M.	Bowers, John F.	Byrne, Chas. B., U. S. A.
Allen, Chas. Alexander.	Bartsch-Dunne, Anna.	Bowker, Chas. H.	Byrne, Walter C.
Allen, Charles L.	Bastian, J. W.	Boyd, Carl B.	Byrnes, William F.
Allen, Charles W.	Battle, Lewis J.	Boyd, Chas. I.	Cabaniss, George W.
Allen, Elijah H.	Battles, Samuel L.	Boyle, Cornelius B.	Cabell, J. M., U. S. A.
Allen, Elzara B.	Bayly, Rozier C.	Boyle, Edward M.	Cabill, James A., jr.
Allen, H. Jerome.	Bayne, J. Breckenridge.	Braekett, John E.	Caldwell, Charles T.
Allen, Janes H.	Beale, Robert S.	Braden, Francis W.	Caldwell, Harry C.
Allen, John.	Beall, Chas. M.	Bradfield, Jefferson D.	Calhoun, George A.
Ammerman, Charles C.	Beaman, Carroll J.	Bradley, Geo. P., U. S. N.	Calver, Geo. M.
Anderson, C. T. G.	Beattie, Wray.	Bradley, Jeter C.	Calvert, Finley H.
Anderson, Joseph W.	Beatty, Louis Kelley.	Brady, John C.	Camalier, Franklin A.
Anderson, U. Grant.	Beatty, Walter K.	Brady, Zadoc M.	Camden, Patta.
Arbely, A. J.	Beckett, George M.	Bragan, George D.	Cameron, Malcolm.
Armstrong, Wm. J.	Beckley, F. R.	Braisted, Wm. C., U. S. N.	Camp, George H.
Arnold, Guy F.	Beebe, William B.	Brandenburg, W. H. R.	Campbell, Charles B.
Arnold, John S.	Beenkwis, Henry U. S. A.	Brandt, Wm. E.	Cannon, James S.
Arntzen, Julius Leo.	Behrend, Adajah.	Branson, Joseph H.	Cannon, Walter D.
Arthur, Wm. H., U. S. A.	Behrend, Edwin B.	Breeht, Nelson Du Val.	Cardoza, Francis J.
Arthurs, S. J.	Behrend, Sidney.	Breenkridge, Scott D.	Carman, Louis D.
Arwine, James T.	Bell, Chas.	Brennan, John F.	Carmichael, Randolph B.
Ashburn, P. M., U. S. A.	Bell, Wm. H., U. S. N.	Brenizer, Gilmer.	Carmichael, C. P.
Ashford, Bailey K.	Beltran, Basil R., U. S. A.	Brent, Clarence E.	Carpenier, D. N., U. S. N.
Ashford, Francis A.	Bennett, A. B., jr.	Brewer, Isaac W.	Carr, W. Browne.
Ashford, Mahlon.	Bennett, Harrison M.	Brewer, Gilbert R.	Carr, William P.
Atkins, Paul N.	Bennett, Maitland C.	Brick, Geo. J.	Carrio, A. J.
Atkinson, Francis V.	Bennett, Robert A.	Brieken, Sacks.	Carroll, James.
Atkinson, John F.	Bennitt, William W.	Bridger, James D.	Carroll, Robert L.
Atkinson, Wade H.	Beresford, Galsworthy G.	Briggs, John D.	Carson, Simeon L.
Atwell, John R.	Bernmann, Isador.	Briscoe, John P.	Carter, Durus D.
Avery, Frederick S.	Bernstein, Hyman.	Bronson, Charles E.	Carter, F. C., U. S. A.
Ayres, Wm. W.	Bevard, William A.	Brooke, Roger, U. S. A.	Carter, William C.
Babbitt, George E.	Biggs, Joseph R.	Brooks, Carroll A.	Castell, L. B.
Babbitt, Zeno B.	Billard, Chas. Lewis.	Brooks, John Doshir.	Castelli, Enrico.
Bacus, Henry.	Billard, Jules F.	Brooks, J. Lester.	Catzva, Morris.
Bacon, A. Maynard.	Bingman, Carroll E.	Brooks, Phil. B.	Caylor, Claude C.
Bacon, Robert B.	Birdsall, Charles W.	Brosius, Mary Allee.	Chadwick, De Witt C.
Baggett, John B.	Birdsall, Gregg Custis.	Brown, Charles W.	Chaims, Geo. S.
Baier, G. K.	Birmingham, H. P., U. S. A.	Brown, Harry Lee.	Chamberlin, Frank T.
Bailey, Emerson S.	Birney, Edith S.	Brown, Hugh A.	Chancellor, P. S.
Bailey, Grafton D. P.	Birtwell, Daniel T.	Brown, Mary L.	Chapman, Thomas P.
Bailey, Henry L.	Bisceoe, Frank L.	Brown, Orville J.	Chappell, John W.
Bailey, Wm. O.	Bishop, H. A.	Brown, Robert W.	Chappell, Sidney L.
Bain, Feneca B.	Bishop, Herbert F.	Brown, Sara Winifred.	Childs, Reed W.
Baker, Frank.	Blaekburn, Richard S.	Brown, W. Hayes.	Chipman, C. N.
Baker, Frank Cole.	Blaine, Robt. G.	Browne, Rhodie W.	Chisolm, Francis M.
Baker, Leigh Y.	Blair, H. C., U. S. A.	Browning, Andrew J.	Choate, Rufus.
Baker, Mary D.	Blair, Joseph D.	Brumbaugh, Gaius M.	Christie, Arthur C., U. S. A.
Baker, Osmynd.	Blake, Levi C.	Brummett, Randolph B.	Christmas, Wm. W.
Baker, Robert W.	Blake, Louisa M.	Bryan, Joseph H.	Church, James R.
Baker, Willie W.	Blakistone, Julian C.	Bryson, Herbert J.	Clark, Chas. Herman.
Baldus, William T.	Bless, Charles L.	Buehanan, Chas. M.	Clark, George C.
Baldwin, C. A.	Bloedorn, W. A., U. S. N.	Buek, John R.	Clark, James J.
Baldwin, Mosby.	Bloom, R.	Bunnemeyer, Bernard.	Clark, John Alex.
Balloch, Edward A.	Blue, James T.	Burbank, Caryl.	Clark, Taliaferro.
Banister, W. B., U. S. A.	Blog, Fred. Macon.	Bureh, Edward W.	Clarke, Wm. Earl, jr.
Barber, James M.	Bogan, Isabel K.	Burch, W. Thompson.	Clarke, Winfield S.
Barber, Robt. T. J.	Bogan, Joseph B.	Burke, Francis E.	Clayton, James G.
Barbour, Frank A.	Bogan, Mary Elizabeth.	Burke, Fredk. B.	Claytor, Thomas A.
Barger, A. S.	Bogan, Samuel W.	Burke, John W.	Clemens, James E.
Barger, G. J. P.	Bogges, John S.		
Barker, Howard W.			

- Clement, A. B. C.
 Clements, Lyman J.
 Clemons, Carl Anson.
 Clifford, John S.
 Coale, Edith Seville.
 Coblentz, Horace B.
 Coburn, Henry C., jr.
 Coe, Anton.
 Cogswell, Frank B.
 Coien, Ralph.
 Cole, George R. Lee.
 Cole, John T.
 Coleman, Horace.
 Collender, Geo. R., U.S.A.
 Collins, Albert R.
 Collins, Charles R.
 Collins, George L., U. S.,
 P. H. S.
 Collins, James C.
 Collins, James H.
 Collins, John F.
 Collins, Saml. J. B.
 Colwell, Clifford B.
 Compton, Arthur G.
 Conklin, Coursen B.
 Conklin, Rush W.
 Conner, William H.
 Conrad, Thos. K.
 Coustas, John.
 Conyngton, Wm.
 Cook, Elmore A. A.
 Cook, George W.
 Cook, Giles B.
 Cook, Henry C.
 Cook, Richard L.
 Cook, Saml. Le Count.
 Cooke, Robert R.
 Cooke, Thomas C.
 Coolidge, Augustus B.
 Copeland, Edgar B.
 Corbin, William E.
 Corey, George B.
 Corley, Karl C.
 Cornish, Mabel.
 Coumbe, Arthur G.
 Coumbe, Oscar H.
 Cousins, Sidney C.
 Cowden, J. Morrow.
 Cowper, Arnold W., U.
 S. A.
 Cox, Oliver C.
 Cox, S. Clifford.
 Craig, Albert E.
 Craig, Henry K.
 Craig, John M.
 Cram, A. M.
 Crandell, Henry N.
 Crawford, C. Alexander.
 Crawford, Chas. B.
 Crittenton, Maepherson.
 Crittenden, Thomas B.
 Croecchia, Antonio.
 Croo', Harrison.
 Crosby, W. D., U. S. A.
 Crosson, Henry J.
 Crowe, John W.
 Crueh, B. Alice.
 Cumiskey, Edw. F.
 Curriden, George A.
 Curtis, Arthur Leo.
 Curtis, Austin M.
 Custis, George W. N.
 Custis, J. B. Gregg, jr.
 Custis, Marvin A.
 Cuthbert, Middleton F.
 Czarra, Sigmund F.
 Dabney, Virginius.
 Danforth, Roderick F.
 Daley, James N.
 Daniel, Robert A.
 Daniels, Uriah J.
 Darby, John J.
 Darby, Taylor E.
 Darnall, Moses H.
 Darrah, Austin A.
 Davidson, Edward Y.
 Davis, Carl L.
 Davis, Carrie C.
 Davis, Charles A.
 Davis, Daniel G.
 Davis, Dowdell H.
 Davis, Frank F.
 Davis, George P.
 Davis, George W.
 Davis, Iewellen F.
 Davis, Wm. T.
 Dawson, Charles F.
 Day, Geo. Frank.
 Dear, Wm. R.
 Dearborn, Reuben B.
 De Carré, Alfred.
 Deckard, P. E.
 Decker, R. R., U. S. A.
 Deehle, Horace M.
 Delaney, Martin D.
 De Laney, M. A., U.S.A.
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 Denison, Raymond C.
 Dennis, J. B., U. S. N.
 Dennison, Ira W.
 Dessez, Paul T., U. S. N.
 De Saussure, R. L.
 Devereux, J. Ryan.
 De Vries, J. Carlisle.
 De Weese, Cornelius.
 Dewey, Christian H.
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 S. N.
 Dickinson, Dwight, jr.
 Dickens, S. H., U. S. N.
 Diller, Frederick W.
 Digges, John H.
 Dixon, Henry M.
 Dixon, Taylor B.
 Dixon, Wm. S., U. S. N.
 Dobson, Herbie A.
 Dobson, William H.
 Dolan, Patrick V.
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 Dollard, Henry L., U. S. N.
 Donn, Fred'k Y.
 Donnelly, Harry H.
 Dorsey, John S.
 Douglas, Alanson S.
 Douglas, James S.
 Do Vling, Geo. B., U. S. N.
 Dowling, James C.
 Dowling, Thomas, jr.
 Downes, Julia V.
 Downey, Alice W.
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 Drenford, George.
 Drennan, Lawrence M.
 Drew, Henry C.
 Dubose, George P.
 Duehring, Frank E.
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 S. A.
 Duffey, Hugh C.
 Dufour, Clarence R.
 Dugan, C. L.
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 Dumas, Michael O.
 Dunbar, A. W., U. S. N.
 Dunlop, John.
 Dunnire, Roy F.
 Dunn, Henry A.
 Dunne, Harold E.
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 Dyer, John C.
 Dyer, J. F.
 Dykes, J. R., U. S. N.
 Dyan, Nicholas J.
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 Eaker, R. A.
 Eastham, Granville.
 Eaten, William E., U.
 S. N.
 Echols, Francis S.
 Ecker, Lewis C.
 Eckhardt, J. C.
 Eddy, Otis S.
 Edie, G. L., U. S. A.
 Edmunds, Meade Ran-
 dolph.
 Edwards, Geo. M., U.S.A.
 Egbert, Edw. H.
 Eggleston, George W.
 Eggleston, James D.
 Eisenberg, Arthur A.
 Eisenberg, J. J.
 Eldridge, Watson W., jr.
 Elgin, Fisk.
 Elgin, William F.
 Eliot, Iewellyn J.
 Eliot, Johnson.
 Elliott, Charles S.
 Elliott, Jere B.
 Elliott, Henry R.
 Elliott, L. E.
 Elliott, M. S., U. S. N.
 Ellis, Hannah C.
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 Ellison, Everett M.
 Ellyson, Robert M.
 Elmore, Bruce, U. S. N.
 Emery, O. V.
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 Emmons, Charles M.
 English, Charles H.
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 English, Merton A.
 Eppard, George I.
 Erbach, Amelia.
 Erving, Emma L.
 Erving, Wm. G.
 Esch, Victor H.
 Eslin, James T.
 Evans, Albert W.
 Evans, Margaret R.
 Evans, Wilson B.
 Eversfield, Wm. O.
 Ezdorf, Rudolph, H. von.
 Fadeley, George B.
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 Fairly, James M.
 Falconer, Bolivar L.
 Fales, Ella Roy.
 Fales, Warren D.
 Farquhar, Charles.
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 Farwell, Wrey G., U. S. N.
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 Featherstonhaugh,
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 Ferguson, Charles E.
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 Ferris, N. Sherwood.
 Filibrown, John P.
 Finley, Erastus M.
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 Fishbat, Albert S.
 Fischer, Howard.
 Fischer, Melville B.
 Fischer, Raymond A.
 Fiske, Charles N., U. S. N.
 Fitz-Hugh, William De A.
 Fitzsimons, P., U. S. N.
 Fletcher, Chas. C.
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 Floria, Salvatore.
 Flower, Alfred H.
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 Folmar, Elnora C.
 Foote, John A.
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 Ford, Roland H.
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 Foster, Romulus A.
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 Frey, J. Pau.
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 Frost, Ellis F.
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 Holland, Josiah H.
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 Hopkins, J. Milton.
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 Hough, J. Spencer.
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 Houghton, Montafix W.
 House, Z. E.
 Housel, Firman.
 Houston, A. L.
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 Howard, Geo. T.
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 Howard, Joseph T. D.
 Howard, Stanton W.
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 Howe, Orwin E.
 Howlett, H. H.
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 Hudson, Wm. Burrows.
 Hughes, John Cecil.
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 Hull, June M.
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 Hunt, Isaac B.
 Hunter, Edwin C.
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 Hunter, Oscar B.
 Huntington, Philip W., U. S. A.
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 Hutchinson, Mahlon.
 Hyatt, Frank.
 Hyde, Chas. W.
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 Ingersoll, Olive P.
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 Ingram, Thomas D.
 Ireland, M. W., U. S. A.
 Irmen, Felix A.
 Irvine, R. S.
 Iseman, Myre S.
 Israeli, Baruch.
 Jack, William A., jr.
 Jackson, Lmer E.
 Jackson, Virgil B.
 Jaeger, H. W.
 Jaisohn, Philip.
 James, Charles H.
 Jamison, Alphon B.
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 Jarvis, G. L. Brown.
 Jeffries, Joseph A., jr.
 Jenkins, Ralph.
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 Jewett, Henry M.
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 Johnson, Chas. C.
 Johnson, Charles R.
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 Johnson, H. Virgil.
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 Johnson, Joseph L.
 Johnson, Joseph Taber.
 Johnson, Loren B. T.
 Johnson, Louis A.
 Johnson, Paul, B. A.
 Johnson, Sidney L.
 Johnson, Stuart C.
 Johnson, H. H., U. S. A.
 Johnson, Wallace.
 Johnston, Gabriel F.
 Johnston, George W.
 Johnston, Henry V.
 Johnston, Wm. B.
 Johnstone, Robert B.
 Jolley, Bushrod B.
 Jones, Edward Barton.
 Jones, Eugene.
 Jones, Glenn C.
 Jones, H. W., U. S. A.
 Jones, John F.
 Jones, Louise T.
 Jones, Robert Emmet, jr.
 Jones, Saml. A.
 Jones, T. B.
 Jones, Thomas E.
 Jones, Thos. G.
 Jones, Wm. C.
 Jones, Willis Wharton.
 Jordan, Arthur.
 Jordan, Charles M.
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 Jorgenson, Hans C.
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 Julihn, Magnus L.
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 Junzhans, John H.
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 Karlsoe, Wilhelm J.
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 Kean, J. R., U. S. A.
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 Kempf, Helen D. C.
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 Kenecal, Wm. P.
 Kennedy, Robert M. U. S. N.
 Kenner, Albert W.
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 Keyser, Carl S.
 Kilingsworth, Laura A. N. P.
 Kilroy, James J.
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 Kimball, Ephraim G.
 King, C. P.
 King, Cora Smith.
 King, Harry C.
 King, William R.
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 Kinnan, William A.
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 Kinyoun, J. J.
 Kirby, Wm. P.
 Kite, Isaac W., U. S. N.
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 Kline, William J. K.
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 Knapp, Herbert D.
 Knight, Carlisle P.
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 Kober, George M.
 Koonce, Howard.
 Koonce, Charles K.
 Korshet, Morris.
 Kramer, Gabriel B.
 Kramer, Thomas B.
 Krechting, Wilhelm E. H.
 Kress, Lauretta E.
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 Krogstad, Henry.
 Kuehn, Fredk. W.
 Kurtz, John.
 Lake, Gleason C., U. S. P. H. S.
 Ladd, John M.
 La Petra, George H.
 La Petra, Linnaeus E.
 La Garde, L. A., jr.
 Lally, Wm. J.
 Lamb, Daniel S.
 Lamb, Isabel Haslup.
 Lamb, Robert Scott.
 Landers, Thomas.
 Lane, David A.
 Laney, Frank P.
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 Larkin, P. Edward.
 Lascot, Fulio Garcia.
 Latimer, Chas. H.
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 Lavens, Hyman.
 Lawrence, Florus F.
 Lawson, Hurlen W.
 Leadley, George W.
 Leake, Jas. P., U. S.
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 Le Comte, R. M.
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 Lee, Frederick D.
 Lee, George H.
 Lee, Mattie V. S.
 Lee, Thomas A.
 Lee, Thomas S.
 Leech, D. O. in.
 Leech, Frank.
 Leech, Geo. A.
 Lehr, Louis C.
 Le Kites, Lillian Rue.
 Le Merle, L. L.
 Lemcr. Hanscn T. A.
 Lemmen, Mary F.
 Lemman, Loucasc N.
 Lewis, Duff G.
 Lewis, Geo. E.
 Lewis, Harry S.
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 Lhamon, R. M., U. S. N.
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 Lile, Minor C.
 Lind, E. G., jr.
 Lind, John F.
 Lindsay, J. W.
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 Linn, Willis.
 Linville, Thomas.
 Lippitt, S. Herman.
 Listoe, Alexander E. J.
 Little, A. B.
 Little, John J.
 Little, Joseph W.
 Little, Richard H.
 Littleld, John R.
 Littlejohn, Alice.
 Littlepage, William H.
 Lloyd, Patrick H.
 Lochblehler, George J.
 Logan, Robert A.
 Logie, Benj. R.
 Long, William.
 Lopp, William Henry.
 Loregan, Katharine.
 Loring, Francis B.
 Losekam, Geo.
 Lothrop, Fdwin S.
 Lounders, C. H. T., U. S. N.
 Lovelace, Carl.
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 Lowe, Thos. F.
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 Luckett, Llewellyn F.
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 Lunsden, Geo. P., U. S. N.
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 Lupton, E. J. S.
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 Luttrell, Walter McM.
 Lynd, Ernest.
 Lyon, Marcus W., jr.
 Lyon, Martha M. B.
 Lyster, T. C., U. S. A.
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 McArdle, Thomas E.
 McCarthy, Jos. J.
 McMahon, R. P.
 McConner, G. H.
 McCord, Harry Stanton.
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 McCray, Arthur H.
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 McDonald, Paul E.
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 McIlhenny, Jas. S.
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 McKeon, Frank H.
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 McNeill, Faton K.
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 McPherson, Dorsey M.
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 McSwen, F. de J.
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 Norton, Edwin H.
 Norton, Rupert.
 Norton, William H.
 Norwood, John C.
 Nowlin, Homer E.
 Nutting, Hugh.
 Ober, George C.
 O'Brien, Emilie Y.
 O'Connor, Jeffery C.
 O'Connor, Charles E.
 O'Donnell, Wm. F.
 O'Donoghue, Jno. A.
 Oertel, Theodore E.
 Old, Edward H. H.
 U. S. N.
 Olds, William J.
 Olesen, Robert Henry.
 Oliver, H. J., jr.
 O'Malley, Mary.
 Ong, Henry A.
 O'Reilly, Thomas.
 Outlaw, John S.
 Overton, Geo. S. D.
 Owens, Saml. Logan.
 Owens, W. O., U. S. A.
 Owsley, William T.
 Pagan, Albert E.
 Page, Wm. M.
 Parker, Francis E.
 Parker, Edward M.
 Parker, Henry P.
 Parker, Joseph M.
 Parkinson, Bernard A.
 Parrow, Thos., jr.
 Parrott, Richard L.
 Parsells, Chas. W.
 Parsons, Alfred V.
 Parsons, Mary A.
 Parsons, Starr.
 Parsons, Wm. T.
 Patten, William F.
 Patterson, Edwin W.
 Peck, Luke B.
 Pedrick, Franklin B.
 Pelzman, Ivy A.
 Pence, Charles W.

- Penrod, Hiram J.
 Penrose, Clement A.
 Percival, Francis R.
 Perkins, Louis J.
 Perkins, Robt. W.
 Perkins, Thomas L.
 Peterson, Bowman H.
 Peterson, George.
 Petters, Frederick H.,
 U. S. A.
 Pettes, Charles V.
 Pettus, W. J., U. S. P.
 H., S.
 Peyton, Harry A.
 Pfeiffer, John Arthur F.
 Pfender, Charles A.
 Phelps, Wilbur M.
 Phelps, William P.
 Philes, Wm. E.
 Phillips, Francis M.
 Phillips, S. H.
 Phillips, Walter F.
 Phillips, William F. R.
 Piburn, John Logan.
 Pickford, Edward F.
 Picroll, Geo., U. S. N.
 Pierre, Samuel M.
 Piggott, John Burr.
 Pike, Mayne M.
 Pi-bury, Henry C.,
 U. S. A.
 Pipes, Henry F.
 Pitznogle, J. E.
 Pleadwell, F. L., U. S. N.
 Pole, Samuel B.
 Polishorn, Henry A.
 Pool, Benjamin G.
 Poole, Francis H.
 Poore, Thos. A.
 Porter, Herbert W.
 Porter, James A.
 Portman, Adeline E.
 Posey, Orlando J.
 Potter, James A.
 Potter, Margaret S.
 Poulton, William E.
 Powell, Robt. J.
 Power, E. M.
 Powers, Richard L.
 Prather, John W.
 Pratt, Alexis L.
 Pratt, John P.
 Prentiss, Daniel W.
 Prentiss, Eliott C.
 Frewitt, George T.
 Price, Abel F., U. S. N.
 Price, Harry M.
 Price, Malvern H.
 Price, P. Willis.
 Price, Walter.
 Price, William K.
 Prosper, Milton H.
 Pryor, James C., U. S. N.
 Pulliam, John M.
 Pulsier, Woodbury.
 Purdy, Obadiah A.
 Purman, J. J.
 Purman, Lewis O.
 Purman, Rose M.
 Purnell, William W.
 Purvis, Charles B.
 Putzki, Paul S.
 Pyles, J. Chester.
 Pyles, Richard A.
 Pyles, Wm. L.
 Quay, John B.
 Quick, Tunis C.
 Quinn, William A.
 Quvey, William L.
 Ragan, Charles A.
 Ralph, Charles E.
 Rand, William H.
 Randall, Jas. H., U. S. N.
 Randolph, B. M.
 Ransell, R. C.
 Ransom, Stacy A.
 Rautenberg, Arthur C.
 Rautenberg, Lewis E.
 Rautenberg, Rudolph.
 Ray, Anthony M.
 Raymond, John U.
 Read, Boyd R.
 Read, Effie A.
 Ready, Francis J.
 Ready, Michael J.
 Reasoner, M. A., U. S. A.
 Rector, Frank L.
 Reed, Chas. E.
 Reed, D. H.
 Reed, Joseph O.
 Reede, E. H.
 Reeve, Delos N.
 Reeve, Jesse N.
 Reeves, Will H.
 Reeves, William P.
 Reiber, Harry S.
 Reiber, M. R.
 Reichelderfer, Luther H.
 Reid, Eva Charlotte.
 Reinhardt, Otto M.
 Reis, Henry, jr.
 Reissner, Emory W.
 Reiss, George S.
 Rench, Victor B.
 Repetti, Fred.
 Repetti, Frederick F.
 Repetti, John J.
 Reville, Laura M.
 Reyburn, Ella F.
 Reyburn, Eugenia.
 Reyburn, Robert, jr.
 Reynard, Walter.
 Reynolds, Dexter P.
 Reynolds, Fred P., U. S. A.
 Rhes, Benjamin R.
 Rhoades, Thos. L., U. S. A.
 Rice, E. Clarence, jr.
 Rich, Frank R.
 Richards, Alfred.
 Richards, Nancy D.
 Richardson, Charles W.
 Richardson, Edward E.
 Richardson, George H.
 Richardson, Gustavus A.
 Richardson, James J.
 Richey, Stephen O.
 Richmond, Paul.
 Ridgeley, Albert.
 Riegel, William A. L.
 Riggles, J. Lewis.
 Riggs, D. H.
 Riser, Geo. A., U. S. N.
 Riley, Josephine.
 Riley, Phil. C.
 Riley, Terrance G.
 Rives, William C.
 Roane, James.
 Robbins, Ansel J.
 Robbins, Chas. S.
 Roberts, Edwin E.
 Roberts, Robert R.
 Roberts, William.
 Robins, William L.
 Robinson, B. G. M.
 Robinson, E. A.
 Robinson, Thomas.
 Robnett, A. Hamilton.
 Rogers, J. D.
 Rollings, J. A.
 Rollins, Harry W.
 Romaine, Frank W.
 Roman, Frederick O.
 Rosenau, M. J., P. H. S.
 Rosenberg, L. Chas.
 Ross, Julian Waldo.
 Ross, Louise.
 Rossiter, Thomas J.
 Roush, Alva S.
 Roy, Philip S.
 Ruble, Wells A.
 Rueley, Robert C.
 Ruffin, Geo. M.
 Ruffin, Sterling.
 Rule, Amy J.
 Russell, F. F., U. S. A.
 Russell, Howard C.
 Russell, Murray A.
 Rutherford, Jesse B.
 Sacks, Samuel.
 Saffold, Guy Stark.
 Safford, James P.
 Sage, John B.
 St. Clair, Francis A.
 St. Clair, Francis O.
 Samson, George C.
 Sanders, C. H.
 Sanderson, Fred. R.
 Sappington, Ernest F.
 Savage, Linnaeus S.
 Sawyer, John F.
 Sawtelle, Henry F.
 Sawtelle, H. W., P. H. S.
 Scarito, Nicolo.
 Schaeffer, Edward M.
 Schelssohn, Otto W.
 Schenck, Chas. P.
 Schildroth, Henry T.
 Schirch, George J.
 Schloer, Chas. A.
 Schmidt, Lawrence M.,
 U. S. N.
 Schneider, Elwin C.
 Schneider, Francis A.
 Schoover, Robert A.
 Schreiber, Henry R.
 Schreiner, E. R., U. S. N.
 Schrieber, Walter F.
 Schrieber, F. C.
 Schunniar, H. T., U. S. A.
 Schwartz, Grover C.
 Schwartz, E. W.
 Scott, James F.
 Scott, Sidney L.
 Seaclock, Herbert C.
 Seabrook, Jesse M.
 Seibert, Edward G.
 Seit, Roy E.
 Selby, John H.
 Selhausen, Harry A.
 Selinger, Maurice A.
 Selman, John P., jr.
 Selser, Henry H.
 Sessord, Joseph S. F.
 Sewell, Charles A.
 Sewell, Richard G.
 Shade, Neven B.
 Shands, Aurelius R.
 Sharp, John R.
 Shaw, John W.
 Shea, William F.
 Shearer, Juliet G.
 Sheehan, R., U. S. N.
 Sheep, Wm. Lloyd.
 Sheell, Abraham.
 Sheldon, L., U. S. N.
 Shelley, Albert.
 Shepard, Jackson B.
 Sherwood, M. W.
 Shopp, Edward M., U. S. N.
 Shirley, John J.
 Shoup, Jesse.
 Shute, Augusta P.
 Shute, Daniel K.
 Sillers, Robert F.
 Silvers, H. J.
 Simmons, Alice M. B.
 Simmons, Maynard J.
 Simmons, Sherod S.
 Simonton, Laurence J.
 Simpson, Charles A.
 Simpson, Edward P.
 Simpson, Geo. F.
 Simpson, John C.
 Sims, William E.
 Sisco, H. N.
 Skinner, J. O., U. S. A.
 Slattery, John J.
 Slaughter, B. Rosalie.
 Sloat, J. Irving.
 Smart, Benjamin H.
 Smart, Robt., U. S. A.
 Smith, Arthur C.
 Smith, C. A.
 Smith, Chas. Gordon.
 Smith, D. O.
 Smith, Ernest W.
 Smith, Frank F.
 Smith, George W.
 Smith, Geo. T., U. S. N.
 Smith, Hugh M.
 Smith, John E.
 Smith, John J. H.
 Smith, Joseph A.
 Smith, Julia E.
 Smith, Leon J.
 Smith, Lucian C.
 Smith, Percy G.
 Smith, Peter M.
 Smith, Stephen H.
 Smith, Silas Le Roy.
 Smith, Thomas C.
 Smith, Thos. F.
 Snow, Carydon G., U. S. A.
 Snowden, Arthur.
 Snowden, Edgar.
 Snyder, Arthur A.
 Sohon, Eli abeth.
 Sohon, Frederick.
 Somerville, John W.
 Sommer, Henry Ott.
 Sorrell, George R.
 Sotheron, Elmer.
 Sotheron, Ievin J.
 Souter, William N.
 Sowers, William F.
 Sowers, Zachariah T.
 Sparks, W. C.
 Spear, Raymond, U. S. N.
 Speiden, Edgar.
 Spellman, Frank J.
 Spencer, John B.
 Spiegal, Harry A.
 Spire, Richard Lee.
 Sprigg, William M.
 Squire, Linus T.
 Squire, Susanna J.
 Staciewicz, Vincent J.
 Stalaker, Paul R., U. S. N.
 Stanley, A. C., U. S. N.
 Stanton, Wm. J.
 Staples, Aubrey H.
 Stark, A. N., U. S. A.
 Starr, Emma M. C.
 Stavely, Albert L.
 Stearns, John S.
 Stearns, J. Warren.
 Stelz, P. H., jr.
 Stephenson, Eugene T.
 Stepp, J., U. S. N.
 Sterne, Charles F.
 Stetson, Thomas.
 Stevens, Albert H.
 Stevens, Edward.
 Stevens, Henry C.
 Stevenson, Fare C.
 Stewart, H. D. Floyd.
 Stewart, John W.
 Stewart, William A.
 Stiles, George W., jr.
 Stiles, Henry R., U. S. A.
 Stimpson, W. G., P. H. S.
 Stoddard, Leroy R.
 Stokes, Chas. F., U. S. N.
 Stone, Charles G.
 Stone, E. P., U. S. N.
 Stone, Isaac S.
 Stone, James H.
 Stone, John H., U. S. A.
 Stonerod, Rebecca.
 Story, James J.
 Story, Leon E.
 Stout, Henry I.
 Stout, Joseph D.
 Stout, May Turner.
 Stoutenburgh, John A.
 Stowell, Charles H.
 Stratton, Ernest K.
 Strawn, Estil Young.
 Street, Daniel B., jr.
 Street, Harlow R.
 Strine, H. F., U. S. N.
 Strobel, Mary L.
 Stromberger, H. H.
 Stuart, Albert R.
 Stuart, Garden C.
 Stuart, James.
 Stutz, John A.
 Suddarth, James L.
 Sudler, Oden R.

- Sudler, Thomas.
 Sullivan, Timothy Joseph.
 Sullivan, Robert Y.
 Sullivan, Welbie L.
 Sult, Chas. W.
 Summy, Benn W.
 Supplee, E. D.
 Suter, Henderson.
 Suter, W. Given.
 Sutherin, John W.
 Sutliff, Milo H.
 Sutton, Dallas G.
 Sutton, R. N.
 Swain, Benj. H.
 Swan, Oliver A. T.
 Swartwout, Frank A.
 Swett, Fred K.
 Stormstedt, Lyman B.
 Syme, William H.
 Talbott, Edw. M. U.S.A.
 Talbott, John Allen, jr.
 Tappan, Joseph C.
 Tasker, Arthur N.
 Tastot, David W.
 Tayloe, Harry M.
 Taylor, Alfred H.
 Taylor, Chas.
 Taylor, Eugene A.
 Taylor, James E. H.
 Taylor, L. H.
 Taylor, Sterling P.
 Tefft, Frederick O.
 Terry, Philip R.
 Test, Frederick C.
 Tewksbury, Wm. D.
 Thomas, Ada R.
 Thomas, Carrie H.
 Thomas, John D.
 Thomas, Wm. J. G.
 Thomas, Wm. J.
 Thompson, Alex. C.
 Thompson, Edgar, U.S.N.
 Thompson, Edgar D.
 Thompson, Henry P. P.
 Thompson, J. Lawn.
 Thompson, Lewis R.
 Thompson, Millard F.
 Thompson, Silas S.
 Thompson, Lewis B.
 Thibbet, William J. R.
 Tibbet, Albert P.
 Tignor, Chas. A.
 Tignor, William L.
 Tilton, Joel A.
 Tindall, Percy A.
 Titus, Elijah W.
 Tobias, Henry W.
 Tobin, Richard Francis.
 Tolson, Wm. A.
 Tomlin, Timothy H.
 Tompkins, Edmund L.
 Tompkins, George J.
 Townner, Frank H.
 Townsend, Jas. G.
 Townshend, G. D.
 Trent, Jos. P.
 Trimble, G. B., U.S.N.
 Trimble, Robt. S.
 Trow, Walter G.
 Trudgian, Josiah B.
 Tubman, James R.
 Tucker, William P.
 Turner, Molyneux.
 Turton, Wm. E.
 Tuttle, A. D., U.S.A.
 Twogood, Merton E.
 Tyler, Robert B.
 Ulmer, Charles A.
 Upham, William C.
 Upshaw, Thomas L.
 Vail, Wm. C.
 Vale, Frank P.
 Valentine, Aloysius W.
 Van Keuren, Jesse P.
 Van Rensselaer, John.
 Van Swearingen, Walter.
 Vaughan, Geo. T.
 Vaughan, J. M.
 Vaughan, W. W.
 Verbruyck, J. Russell.
 Vincent, Thomas N.
 Vinciguerra, Michael.
 Von Ezdorf, Rudolph H.
 Wagner, Henry G.
 Wagner, Robert S.
 Wagner, William F.
 Walker, Abbott R.
 Walker, C. C.
 Walker, Lewis A.
 Walker, Mary E.
 Walker, Robert A.
 Walker, R. R.
 Wall, Joseph S.
 Wall, M. C.
 Wall, Max.
 Wallace, C. Jaquius.
 Wallace, Clifton R.
 Walsh, Ferdinand C.
 Walsh, John E.
 Walsh, Ralph.
 Walter, Leroy D.
 Walter, William F.
 Ward, Samuel A.
 Ward, William K.
 Warden, H. F. W.
 Warfield, William A.
 Waring, James H. N.
 Waring, J. B. H.
 Warner, Carden F.
 Warner, John W.
 Warner, Richard A.
 Warren, Benj. S.
 Warren, George W.
 Warren, Stanley S.
 Washburn, William S.
 Washington, Richard.
 Waters, Chas. H.
 Waters, Chas. L.
 Watkins, Edgar W.
 Watkins, Samuel E.
 Watkins, Victor E.
 Watson, Charles L.
 Watson, Edward J.
 Watson, James A.
 Weaver, Clarence A.
 Weaver, C. H., U.S.N.
 Webb, Daniel A.
 Webb, Frank R.
 Webb, Newton E.
 Webb, W. D., U.S.A.
 Webster, Lenora F.
 Wechsler, Benj. B.
 Weed, Mark D., U.S.A.
 Weiler, Geo. L.
 Weirich, Samuel T., U.S.A.
 Wellington, John R.
 Wells, Charles A.
 Wells, Walter A.
 Wells, Wm. A., jr.
 Wenger, Wm. H.
 Wenzel, Albert G.
 Werber, Gustavus E.
 Wertenbaker, Clark I.
 West, Charles I.
 West, John H.
 West, Richard T.
 West, William E.
 Westlake, John A.
 Wetmore, William O.
 Whaley, A. M., U.S.A.
 Wharton, John J., jr.
 Wheatley, Charles.
 Wheeler, A. J.
 Whipper, Rollin W.
 Whitby, F. D.
 White, Charles S.
 White, Davenport.
 White, Ellen P. C.
 White, Lyle C.
 White, S. A., U.S.A.
 Whitney, Charles F.
 Whitney, Lawrence.
 Whitney, Walter.
 Whitson, Wm. Essex.
 Whittington, Thos. A.
 Wickliffe, Thompson F.
 Wiese, E. Robert.
 Wiggins, Dallas B.
 Wilder, James R.
 Wiley, Clarence C.
 Wilkinson, Alfred D.
 Wilkinson, Oscar.
 Wilkinson, Walter W.
 Willis, H. Clay.
 Willis, John M.
 Willets, David G.
 Williams, Alexander W.
 Williams, Daniel H.
 Williams, H. J.
 Williams, J. Buxton, jr.
 Williams, Feginald O.
 Williams, Tom A.
 Williams, Weldon C.
 Williamson, L. P., U.S.A.
 Williston, Edward D.
 Willson, Frontiss.
 Wilmer, William H.
 Wilson, Anita A.
 Wilson, Edmund C. A.
 Wilson, Edward C.
 Wilson, Lewis D.
 Wilson, Wm. H.
 Wimberly, Geo. W.
 Wingate, D. M.
 Winslow, John R.
 Wirt, Wm. D.
 Wolfe, Edwin P.
 Wolfe, James T.
 Wood, Amos D.
 Wood, George W.
 Wood, N. N., U.S.A.
 Wood, Wm. P.
 Woode, Charles H.
 Woods, Edgar L., U.S.N.
 Woodson, T. D., U.S.A.
 Woodward, H. Wells.
 Woodward, James S., U.S.N.
 Woodward, William C.
 Woolen, L. J.
 Wooster, Mary L.
 Wooster, Walter M.
 Wright, Clarence A.
 Wright, George H.
 Wright, Hamilton K.
 Wright, Wilbur L.
 Wurdemann, H. V.
 Wyeth, Marlborough C., U.S.A.
 Wynkoop, James C.
 Yarnall, John H.
 Yarrow, Henry C.
 Yates, Frederick.
 Young, Clement C.
 Young, Clifton E.
 Young, Glendie B.
 Young, Wm. G.
 Yount, Clarence E.
 Zimmerman, Charles St. V.
 Zinkhan, A. M.
 Zinkhan, Paul H.

APPENDIX H.

VITAL STATISTICS.

SEPTEMBER 24, 1917.

SIR: I have the honor to submit herewith my report relative to the vital statistics of the District of Columbia for the calendar year 1916, embodied chiefly in the appended tables.

Population.—The police census for 1915 was 357,749, and an estimate for 1916 based upon this and previous enumerations show a population for the midyear of 359,997, of which 260,854 were white and 99,143 colored. No estimate was attempted with respect to sex distribution, nor according to statistical districts, nor as to street and alley inhabitants.

General mortality.—Deaths from all causes during the calendar year 1916 numbered 6,494, of which 3,953 were white persons and 2,541 colored. The white deaths represent a death rate of 15.15; the colored, a death rate of 25.63. The general rate was 18.04.

Comparative race mortality.—The following statement shows the ratio between the death rates of the white and colored races from certain specified diseases:

Comparative race mortality.

Diseases.	Death rate per 100,000.		Ratio of death rates, white to colored.
	White.	Colored.	
Abdominal tuberculosis.....	2.3	10.1	1 to 4.39
Accidents and negligence.....	67.7	62.6	1 to .92
Alcoholism.....	8.1	7.1	1 to .88
Bronchitis (all forms).....	15.0	38.4	1 to 2.56
Cerebral hemorrhage.....	116.5	160.4	1 to 1.38
Cirrhosis of liver.....	10.7	6.1	1 to .57
Congenital debility.....	1.2	.0	1 to 0.00
Convulsions, infantile.....	3.1	5.0	1 to 1.61
Diarrhea, etc., under 2 years.....	28.3	101.9	1 to 3.60
Dysentery.....	1.1	3.0	1 to 2.73
Generalized tuberculosis.....	0.4	1.0	1 to 2.50
Marasmus under one year.....	19.6	27.2	1 to 1.39
Nephritis:			
Acute.....	11.9	44.4	1 to 3.73
Chronic.....	146.1	208.8	1 to 1.43
Pericarditis, endocarditis, myocarditis.....	28.0	79.6	1 to 2.84
Pneumonia (all forms).....	117.0	301.6	1 to 2.58
Premature birth.....	37.9	82.7	1 to 2.18
Puerperal eclampsia.....	4.6	9.1	1 to 1.98
Puerperal septicemia.....	4.2	7.1	1 to 1.69
Pulmonary hemorrhage.....	0.7	14.1	1 to 20.14
Rheumatism, acute and chronic.....	5.0	5.0	1 to 1.00
Rickets.....	0.4	9.1	1 to 22.75
Scurvy.....	29.9	43.4	1 to 1.45
Syphilis (hereditary).....	4.2	19.2	1 to 4.57
Suicides.....	29.4	11.0	1 to .37
Tuberculosis of lungs.....	105.4	374.2	1 to 3.55
Typhoid fever.....	9.6	21.2	1 to 2.21
Valvular heart disease.....	187.1	239.0	1 to 1.23
Whooping cough.....	6.5	24.2	1 to 3.72

Mortality in relation to age.—The average age at death of all decedents during 1916 was 44 years, 11 months, and 2 days—an increase of 4½ months since 1915. The average age of the white decedents was 49 years, 11 months, and 28 days, and that of the colored 37 years and 11 days. The following table shows the average age of decedents by race and sex during 1915 and 1916 compared:

Average age of decedents, 1915-16.

Race.	Male.			Female.			All.		
	Years.	Months.	Days.	Years.	Months.	Days.	Years.	Months.	Days.
White decedents:									
1915.....	48	3	16	52	.....	19	50	.....	1
1916.....	48	7	6	51	9	7	49	11	28
Colored decedents:									
1915.....	35	3	22	37	3	5	36	3	8
1916.....	36	9	24	37	3	4	37	.....	11
All decedents:									
1915.....	43	4	9	45	10	17	44	6	16
1916.....	44	2	19	45	9	2	44	11	2

Mortality with respect to location.—A statement of the healthfulness or unhealthfulness of the various statistical districts, which is ascertained by a comparison of their death rates, can not be given for 1916, because of the absence, as mentioned before, of knowledge of the population of these districts. However, reference to Table 7 of Appendix I shows for each district the total number of deaths, and also the number of deaths from certain diseases, arranged as to race. Further information as to street and alley mortality is to be found in Table 7B.

Infant mortality.—Death rates among infants less than 1 year of age have consistently declined, with occasional yearly variations, since 1901, as shown by the following statement:

Death rates under 1 year, computed in reported births.

Year.	White.			Colored.			Total.		
	Births.	Deaths under 1 year.	Death rate per 1,000 births.	Births.	Deaths under 1 year.	Death rate per 1,000 births.	Births.	Deaths under 1 year.	Death rate per 1,000 births.
1901-1905 ¹	3,429	519	151	1,980	650	328	5,409	1,169	216
1906-1910 ¹	4,632	522	113	2,218	592	261	6,900	1,114	161
1911-1915 ¹	4,794	411	86	2,234	424	189	7,028	835	119
1916.....	5,042	413	82	2,216	353	159	7,258	766	106

¹ Annual average for 5-year period.

The most prominent causes of infant mortality during 1916, the number of deaths due to each, and the death rates per 1,000 reported births are as enumerated on opposite page:

Deaths from certain diseases peculiar to infants under 1 year of age and death rates per 1,000 reported births.

Causes of death.	White.		Colored.		Total.	
	Deaths.	Death rate per 1,000 births.	Deaths.	Death rate per 1,000 births.	Deaths.	Death rate per 1,000 births.
Accidents and negligence.....	2	0.39	3	1.35	5	0.69
Bronchitis.....	2	.40	15	6.77	17	2.34
Congenital debility, marasmus.....	54	10.71	27	12.18	81	11.16
Congenital malformation.....	24	4.76	5	2.25	29	3.99
Convulsions.....	7	1.39	2	.90	9	1.24
Diarrheal diseases.....	67	13.29	86	38.81	153	21.08
Pneumonia.....	28	5.55	47	21.21	75	10.33
Prematurity.....	99	19.63	82	37.00	181	24.94
Syphilis.....	8	1.59	14	6.32	22	3.03

Mortality with reference to causes of death.—The following statement shows the number of deaths during 1915 and 1916, separately classified according to certain disease groups and arranged with reference to race and sex. For detailed information concerning the various diseases comprised in these groups, the number of deaths from each disease, and other data, reference should be made to the general statistical table No. 1 and its subdivisions in Appendix I.

Mortality as to disease groups, 1915 and 1916, compared.

Disease groups.	Total.		Disease groups.	Total.	
	1915	1916		1915	1916
General diseases.....	1,659	1,646	Organs of locomotion.....	13	15
Nervous system.....	685	700	Malformations.....	37	29
Circulatory system.....	1,094	1,131	Infancy.....	341	332
Respiratory system.....	841	755	Child age.....	113	121
Digestive system.....	535	540	Violence.....	352	366
Genito-urinary system.....	762	753	Ill-defined diseases.....	11	9
Puerperal state.....	39	62			
Skin and cellular tissue.....	23	30	Total.....	6,505	6,494

Suicides.—Eighty-eight persons committed suicide during 1916, of whom 77 were white and 11 colored. This exceeds 1915 suicides by only 1. The methods resorted to for self-murder were as follows: Twenty-seven (23 whites and 4 colored) used firearms, 19 (all whites) used illuminating gas, 11 bichloride of mercury, 9 hanging, 5 each used cutting instruments or carbolic acid poison, 3 met death by jumping from high places, 2 by drowning, 2 by arsenic, and 1 each from concentrated lye, hydrocyanic acid, nitric acid, potassium iodide, and chloroform.

As to the age of those who died by suicide, 3 were between 10 and 19 years of age, 23 between 20 and 29 years, 16 between 30 and 39 years, 18 between 40 and 49 years, 19 between 50 and 59 years, 6 between 60 and 69 years, 2 between 70 and 79 years, and 1 over 80 years old. Suicides among married people were 40; unmarried, 32; widowed, 11; and those whose marital relation was unknown, 5.

Suicides whose birthplace was the District numbered 22; 41 were born in other parts of the United States; 11 were of foreign birth, and 14 were of those whose nativity was not ascertained.

Birth rates.—There were 7,258 live births registered during 1916; 5,042 were white babies and 2,216 were colored.

Vital statistics for first half of calendar year 1917.—The following statement shows the morbidity and mortality in the District of Columbia during the first six months of the calendar year 1916, with corresponding figures for the first six months of 1917, of certain reportable and other diseases, together with deaths due to violence. This statement is appended to bring the report as nearly up to date as possible:

Reportable cases of illness and deaths in the District of Columbia during the first half of the calendar year 1917, with the corresponding figures for the first half of the calendar year 1916.

Causes of death.	Cases of reportable diseases.		Deaths.				Total.	
			White.		Colored.			
	1916	1917	1916	1917	1916	1917	1916	1917
External causes:								
Accidents and negligence.....			75	84	33	36	108	120
Homicides.....			2	10	13	10	15	20
Suicides.....			44	39	7	5	51	44
Natural causes.....			1,983	2,042	1,231	1,281	3,214	3,323
Total.....			2,104	2,175	1,284	1,332	3,388	3,507
Special diseases:								
Acute anterior poliomyelitis.....	2							
Bronchitis.....			22	23	24	11	46	34
Chicken pox.....	861	691						
Diarrheal diseases under 2 years.....			11	14	12	23	23	37
2 years and over.....			15	18	8	9	23	27
Diphtheria.....	356	332	14	14	6	1	20	15
Measles.....	2,156	3,047	2	2	2	2	4	4
Meningitis, epidemic cerebrospinal.....	5	19	2	6	2	4	4	10
Pellagra.....	11	6	5		1	4	6	4
Pneumonia.....			217	220	184	189	401	409
Pulmonary congestion.....			2	7	2	2	4	9
Tuberculosis (all forms).....	570	491	175	161	217	207	392	368
Rheumatism, acute.....			6	5	3	3	9	8
Scarlet fever.....	309	269	5	5	1		6	5
Smallpox.....	1	3						
Typhoid fever.....	82	65	11	3	6	8	17	11
Whooping cough.....	785	686	5	5	12	3	17	8
All other diseases.....			1,491	1,559	751	815	2,242	2,374
External causes, as above.....			121	133	53	51	174	184
Total.....	5,138	5,609	2,104	2,175	1,284	1,332	3,388	3,507

Very respectfully,

A. C. PATTERSON, M. D.,
Chief, Bureau of Vital Statistics.

To WM. C. WOODWARD, M. D.,
Health Officer, District of Columbia.

APPENDIX I.

TABLE 1a. Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death.

Cause of death.	Calendar year 1916.										Total deaths preceding year.	Variation in deaths in present as compared with preceding year.			
	Total deaths.			General death rates.			Percentage of each cause to total mortality.	Deaths by race and sex.							
								White.		Colored.					
	White.	Colored.	All.	White.	Colored.	All.		Male.	Female.	Male.				Female.	
I. General diseases.															
1 Typhoid fever.....	25	21	46	0.096	0.212	0.127	0.708		20	5	10	11	42	4	.....
2 Typhus fever.....															.....
3 Relapsing fever.....															.....
4 Malaria.....	2	1	3	.007	.010	.008	.046		1	1		1	2	1	.....
5 Smallpox.....															.....
6 Measles.....	4	2	6	.015	.020	.017	.092		2	2	2	2	8	1	.....
7 Scarlet fever.....	5	1	6	.019	.010	.016	.083		2	3		1	8	1	.....
8 Whooping cough.....	17	24	41	.065	.242	.114	.631		9	8	14	10	19	22	.....
9 Diphtheria and croup.....	26	7	33	.099	.071	.092	.508		14	12	4	3	29	4	.....
10 Influenza (grippe).....	71	41	112	.272	.414	.311	1.725		36	35	17	24	114		.....
11 Miliary fever.....															.....
12 Asiatic cholera.....															.....
13 Cholera nostras.....	1		1	.004		.003	.015		1					1	.....
14 Dysentery.....	3	3	6	.011	.030	.017	.092		1	2	1	2	7	1	.....
15 Plague.....															.....
16 Yellow fever.....															.....
17 Lepra sy.....	5	6	11	.019	.061	.031	.169		3	2	1	5	13	2	.....
18 Erysipelas.....															.....
19 Other epidemic diseases.....															.....
20 Purulent infection and septicemia.....	15	11	26	.058	.111	.072	.400		13	2	6	5	15	11	.....
21 Glanders.....															.....
22 Anthrax.....															.....
23 Rabies.....	3	5	8	.012	.050	.022	.123		2	1	1	5	4	4	.....
24 Tetanus.....															.....
25 Mye sis.....															.....
26 Pellagra.....	8	1	9	.031	.010	.025	.139		3	5	1	1	16	7	.....
27 Beriberi.....															.....
28 Tuberculosis of lungs.....	275	371	646	1.054	3.742	1.794	9.947		171	104	191	180	698	52	.....

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death—Continued.

Cause of death.	Calendar year 1916.										Total deaths preceding year.	Variation in deaths in present as compared with preceding year.		
	Total deaths.			General death rates.			Percentage of each cause to total mortality.	Deaths by race and sex.						
	White.	Colored.	All.	White.	Colored.	All.		White.		Colored.				
							Male.	Female.	Male.	Female.				
I. General diseases—Continued.														
29 Tuberculosis, acute miliary.....	5	15	20	.019	.151	.056	.308	3	2	12	3	6	2	
30 Tuberculosis, meningeal.....	19	10	29	.073	.101	.081	.447	10	9	5	5	1	2	
31 Tuberculosis, abdominal.....	6	10	16	.023	.101	.044	.246	5	1	8	2	15	1	
32 Tuberculosis, spinal (Pott's disease).....	2	4	6	.008	.040	.016	.093	2	2	2	2	5	1	
33 Tuberculosis of joints (white swelling).....	1	8	9	.003	.081	.003	.016	1	1	2	1	4	3	
34 Tuberculosis of other organs.....	5	3	8	.019	.031	.022	.123	4	1	2	1	6	2	
35 Tuberculosis, disseminated.....	1	1	2	.004	.010	.006	.031	1	1	6	3	9	1	
36 Rheumatism.....	1	9	10	.004	.091	.028	.154	1	1	6	3	9	1	
37 Syphilis:														
Acquired.....	6	13	19	.023	.131	.053	.293	5	1	10	3	23	4	
Conventional.....	11	19	30	.042	.192	.083	.462	7	4	7	12	27	3	
38 Gonorrheal infection.....	1	1	1	.004	.003	.003	.015	1	1	1	1	1	1	
39 Cancer of buccal cavity:														
1. Jaw.....	5	1	6	.019	.010	.017	.092	4	1	1	1	8	2	
2. Lip.....	2	2	4	.008	.006	.006	.031	2	2	1	2	2	1	
3. Mouth.....	1	1	2	.003	.010	.003	.015	1	1	1	1	1	1	
4. Palate.....	1	1	2	.010	.003	.006	.016	1	1	1	1	1	1	
5. Tongue.....	6	2	8	.023	.020	.022	.123	5	1	2	3	5	5	
40 Cancer of—														
1. Liver.....	37	7	44	.142	.071	.122	.678	19	18	3	4	52	8	
2. Esophagus.....	7	1	8	.027	.010	.022	.123	7	3	1	3	5	3	
3. Stomach.....	63	23	86	.241	.232	.239	1.324	30	33	11	12	72	14	
Cancer of intestines.....	31	12	43	.118	.121	.119	.662	10	21	4	8	42	1	
41 Cancer of—														
1. Ovary.....	2	2	4	.008	.005	.005	.031	2	2	2	5	5	3	
2. Uterus.....	49	21	70	.188	.212	.194	1.078	49	49	21	70	1	1	
42 Cancer of breast.....	31	11	42	.119	.111	.117	.647	1	30	11	41	1	1	
43 Cancer of face.....	5	5	10	.019	.014	.014	.077	5	5	5	11	6	6	
44 Cancer of—														
1. Bladder.....	7	4	11	.027	.040	.031	.169	6	1	4	14	1	3	
2. Brain.....	1	1	2	.003	.010	.002	.015	1	1	1	2	1	1	

[illegible]

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death.—Continued.

Cause of death.	Calendar year 1916.											Total deaths in preceding year.	Variation in deaths in present as compared with preceding year.
	Total deaths.			General death rates.			Per-centage of each cause to total mortality.	Deaths by race and sex.					
	White.	Col-ored.	All.	White.	Col-ored.	All.		White.		Colored.			
								Male.	Fe-male.	Male.	Fe-male.		
II. Diseases of nervous system and organs of special sense—Continued.													
Other diseases of the spinal cord—Continued.													
7. Sclerosis, lateral.....	1	1	.004	.003	.015	1	.002	.015	1	.....	.....	.....	1
8. Sclerosis, multiple.....	4	4	.015	.010	.015	1	.002	.015	1	.....	.....	.....	1
9. Sclerosis, spinal.....	304	463	1.165	1.604	7.130	155	.011	.062	70	89	457	6	2
Cerebral hemorrhage.....	2	2	.007	.010	.008	1	.006	.031	1	.....	.....	.....	7
Softening.....	2	3	.007	.010	.008	1	.006	.031	1	.....	.....	.....	4
Paralysis, unqualified.....	48	23	.184	.232	.197	44	.008	.046	2	2	1	10	4
Paralysis, of tongue.....	4	2	.015	.020	.017	6	.020	.017	4	4	3	67	4
Mental alienation.....	12	6	.046	.061	.050	6	.061	.277	6	4	2	4	2
Epilepsy.....	70	18	.031	.050	.200	5	.050	.277	6	4	2	15	3
Convulsions (nonfebrile), 5 years and over.....	8	5	.031	.036	.200	5	.036	.200	3	2	3	15	2
Convulsions (under 5 years).....	5	1	.019	.016	.093	2	.016	.093	3	1	5	1	1
Chorea.....	5	1	.019	.010	.016	.....	.016	.093	3	1	5	1	1
Neuritis.....	5	1	.019	.010	.016	.....	.016	.093	3	1	5	1	1
Other diseases of nervous system:													
1. Brain disease, organic.....	6	3	.023	.030	.025	5	.025	.138	5	1	2	1	17
2. Brain tumor.....	11	3	.042	.031	.039	6	.039	.216	6	5	1	2	10
3. Chorea, Huntington's.....	3	3	.012	.008	.046	3	.008	.046	3	.....	.....	.....	4
4. Hydrocephalus.....	2	2	.006	.021	.006	.....	.006	.031	.....	.....	.....	.....	2
5. Neurasthenia.....	1	1	.004	.003	.015	1	.003	.015	1	.....	.....	.....	2
Diseases of the eye and adnexa.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Otitis media.....	5	2	.019	.020	.108	2	.019	.108	2	3	2	5	5
Total diseases of nervous system and organs of special sense.....	472	700	1.809	2.300	1.944	266	2.300	10.779	113	115	685	15	.....
III. Diseases of circulatory system.													
Percarditis.....	2	4	.008	.040	.017	.....	.040	.092	2	2	6	.....	.....
Endo and myocarditis (under 60 years).....	71	75	.272	.756	.406	40	.756	2.218	31	35	122	21	.....

79	Organic heart disease.....	488	228	716	1,871	2,300	1,088	11,025	269	219	119	169	791	15
80	Angina pectoris.....	22	8	30	.084	.084	.088	.462	18	4	3	6	30	1
81	Diseases of arteries.....	4	23	27	.015	.272	.075	.416	4	.....	14	9	18	9
	1. Aneurysm.....	1	.....	.....	.....	.....	.003	.015	.....	.....	.....	.....	.....	.....
	2. Aortitis.....	1	.....	.....	.....	.....	.003	.015	.....	.....	.....	.....	.....	.....
82	Embolism and thrombosis.....	153	26	179	.586	.262	.497	2,756	77	76	13	13	154	25
83	Phlebitis.....	15	8	23	.058	.081	.064	.354	5	10	5	3	29	6
	1. Phlebitis.....	1	1	2	.004	.011	.096	.031	1	.....	.....	1	3	1
	Varicose veins.....	1	2	2	.....	.020	.006	.031	.....	.....	2	.....	.....	2
84	Adenitis.....	1	1	2	.004	.010	.005	.031	1	2	1	.....	.....	2
85	Tachycardia.....	2	.....	2	.008	.....	.006	.031	.....	.....	.....	.....	.....	2
	Total diseases of circulatory system.....	760	376	1,136	2,914	3,793	3,156	17,492	416	314	194	182	1,094	42
IV. Diseases of respiratory system.														
86	Diseases of nasal fossae.....	2	.....	2	.007	.....	.006	.031	2	.....	.....	.....	5	3
87	Laryngitis, acute.....	1	1	1	.004	.....	.003	.015	1	1	.....	.....	1	1
	Papillon a of larynx.....	1	1	1	.004	.....	.003	.016	.....	2	.....	.....	3	1
	Thyroid gland, removal of.....	2	2	2	.008	.....	.006	.031	.....	.....	.....	.....	.....	3
88	Goitre.....	12	12	24	.046	.121	.067	.370	3	9	4	8	27	1
89	Bronchitis, acute.....	3	19	22	.012	.192	.061	.339	1	2	8	11	21	3
	Capillary.....	24	7	31	.092	.071	.086	.477	8	16	4	3	39	8
90	Chronic.....	21	33	54	.081	.333	.150	.832	9	12	21	12	67	13
	Pneumonia, broncho, catarrhal, etc.:.....	81	81	162	.311	.817	.450	2,495	40	41	35	46	168	6
92	1. Und-r 1 year.....	7	14	21	.027	.141	.058	.323	4	3	5	9	34	13
	2. 1 year and over.....	196	171	367	.751	1,725	1,019	5,651	117	79	111	60	402	35
93	1. Und-r 1 year.....	.....	1	1	.....	.....	.010	.003	.....	.....	.....	.....	.....	.....
	2. 1 year and over.....	3	11	14	.011	.111	.039	.216	1	2	6	5	19	5
94	Empyema.....	5	4	9	.019	.040	.025	.139	3	2	4	1	8	1
	Pulmonary cong sion.....	6	4	10	.023	.040	.028	.154	2	4	3	1	7	3
95	Pulmonary, oe-len a.....	1	2	3	.004	.020	.008	.046	1	1	1	1	3	.....
96	Pulmonary, gang-ne.....	4	4	8	.015	.041	.022	.123	1	3	.....	4	14	6
97	Asthma.....	1	1	1	.004	.....	.002	.015	1	.....	.....	.....	3	2
98	Pulmonary emphysema.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
99	Other diseases of respiratory system:	1	1	1	.004	.....	.003	.016	.....	1	.....	.....	.....	1
	1. Bronchorrhagia.....	1	1	1	.004	.....	.003	.015	.....	1	.....	.....	.....	1
	2. Pleuroid pneumonia.....	2	1	3	.008	.010	.008	.046	2	.....	1	.....	6	3
	3. Pulmonary abscess.....	2	14	16	.007	.010	.044	.246	2	.....	7	7	17	1
	4. Pulmonary hemorrhagia.....	2	1	1	.....	.010	.003	.015	.....	.....	.....	1	.....	.....
	5. Stenosis of trachea.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	Total diseases of respiratory system.....	376	379	755	1,442	3,823	2,097	11,626	198	178	206	173	841	86

114	Cholelithiasis.....	11	3	14	.012	.030	.039	.216	2	9	2	1	11	3	.....
115	Other diseases of liver:														
	1. Biliary fistula.....	1	.....	1	.004	.....	.003	.015	.....	1	.....	.....	.....	1	.....
	2. Hydatid cyst.....	16	5	21	.031	.050	.058	.323	3	13	2	3	14	7	.....
	3. Hepatitis.....	5	1	6	.019	.010	.017	.092	2	.....	.....	.....	11	.....	5
	4. Tumor of liver.....	1	.....	1	.004	.....	.003	.016	.....	1	.....	.....	.....	1	.....
116	Diseases of spleen.....														
117	Peritonitis.....	3	5	8	.011	.051	.022	.123	2	1	4	1	12	.....	4
118	Pleuritis.....	2	1	3	.008	.010	.008	.046	1	1	1	.....	3	.....	.....
	Tumor of pancreas.....	2	.....	2	.007	.....	.006	.031	2	.....	.....	.....	.....	2	.....
	Total diseases of digestive system.....	319	221	540	1.222	2.229	1.500	8.315	169	150	111	110	535	5	.....
VI. Nonvenereal diseases of genito-urinary system.															
119	Nephritis, acute.....	31	44	75	0.110	0.444	0.206	1.155	12	19	17	27	77	.....	2
120	Nephritis, chronic.....	381	297	588	1.461	2.088	1.633	9.054	237	144	113	94	613	.....	25
121	Chyluria.....														
122	Other diseases of kidneys and adnexa:														
	1. Abscess of kidney.....	1	2	3	.004	.020	.008	.046	1	.....	1	1	.....	3	.....
	2. Haematuria.....	1	.....	1	.004	.....	.013	.015	.....	.....	.....	.....	.....	1	.....
	3. Pyelonephritis.....	10	1	11	.038	.010	.031	.169	7	3	1	.....	18	.....	7
	4. Nephrolithiasis.....	2	.....	2	.008	.....	.006	.031	1	1	.....	.....	.....	2	.....
123	Diseases of bladder:														
124	1. Cystitis.....	6	2	8	.023	.020	.022	.123	6	.....	2	.....	7	.....	1
	2. Stricture of urethra.....	1	1	1	.....	.010	.003	.015	.....	1	.....	.....	.....	1	.....
125	Diseases of urethra:														
	1. Urethral abscess.....	1	1	1	.....	.010	.003	.015	.....	1	.....	.....	.....	1	.....
	2. Urinary fistula.....	1	1	1	.....	.010	.003	.016	.....	1	.....	.....	.....	1	.....
126	Diseases of prostate:														
	1. Prostatotomy.....	1	.....	1	.003	.....	.003	.015	1	.....	.....	.....	.....	1	.....
	2. Prostatic adenoma.....	1	1	1	.010	.010	.003	.016	.....	.....	1	.....	.....	1	.....
	3. Prostatic hypertrophy.....	10	3	15	.038	.050	.042	.231	10	.....	5	.....	13	2	.....
	4. Prostatitis.....	5	.....	5	.019	.....	.014	.077	5	.....	.....	.....	.....	5	.....
127	Phlegmon scroti.....	.....	2	2	.021	.005	.031	.031	.....	2	.....	.....	3	.....	1
128	Uterine hemorrhage (nonpuerperal).....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
129	Uterine fibroid.....	6	8	14	.023	.081	.039	.216	.....	6	.....	8	7	7	.....
130	Other diseases of uterus:														
	1. Metritis.....	2	.....	2	.008	.....	.006	.031	.....	2	.....	.....	.....	2	.....
	2. Pelvic abscess.....	2	3	5	.007	.030	.014	.077	.....	2	.....	3	5	.....	.....
131	Cysts and other tumors of ovary:														
	1. Ovarian cyst.....	1	1	1	.....	.010	.003	.015	.....	.....	.....	1	3	.....	2
	2. Ovarian tumor.....	1	1	1	.....	.010	.003	.016	.....	.....	.....	1	.....	1	.....
132	Other diseases of female genital organs:														
	1. Abscess of ovary.....	2	.....	2	.008	.....	.006	.031	.....	2	.....	.....	.....	2	.....
	2. Abscess of vulva.....	1	.....	1	.004	.....	.003	.015	.....	1	.....	.....	.....	1	.....
	3. Pyosalpinx.....	2	10	12	.008	.101	.033	.185	.....	2	.....	10	10	2	.....
133	Diseases of the breast (nonpuerperal).....														
	Total nonpuerperal diseases of genito-urinary system.....	463	290	753	1.775	2.925	2.092	11.595	281	182	145	145	762	.....	9

145	6. Cellulitis. Other diseases of skin and adnexa: 1. Impetigo bullosa. 2. Pemphigus. 3. Cheir of leg.	3	1	4	.014	.010	.011	.002	1	2			1	3	1
	Total diseases of skin and cellular tissue.	17	13	30	.065	.131	.083	.462	13	4	10	3	23	7	
146	IX. Diseases of bones and organs of locomotion.														
	Diseases of bones:	1		1	.004		.003	.015	1				1		
	1. Abscess, ethmoid.	1		1		.010	.003	.015			1			1	
	2. Abscess, submandibular.	1	1	1	.003	.010	.006	.031	1		1			2	
	3. Empyema.	6	1	7	.023	.010	.019	.108	5	1			3	4	
	4. Mastoiditis.	1	1	2	.004	.010	.005	.031		1	1		6		4
	5. Osteomyelitis.	2		2	.008		.006	.031	2				2		
147	Arthritis.														
148	Amputations.														
149	Other diseases of organs of locomotion.														1
	Total diseases of bones and organs of locomotion.	11	4	15	.042	.040	.042	.231	9	2	3	1	13	2	
150	X. Malformations.														
	Congenital malformations:	1		1	.004		.003	.015	1				4		3
	1. Cleft palate.	1		1	.003		.002	.010	1				5		4
	2. Hydrocephalus.	2		2	.008		.006	.031		1				2	
	3. Microcephalus.	19	5	24	.073	.050	.067	.389	11	8	4	1	21	3	
	4. Patent foramen ovale.	1		1	.004		.003	.015		1				1	
	5. Pyloric stenosis.														
	Total malformations.	24	5	29	.092	.050	.081	.446	14	10	4	1	37		8
151	XI. Early infancy.														
	Congenital debility, icterus, sclerema:	3		3	.012		.008	.046	3				11		8
	1. Congenital debility.		1	1		.010	.003	.015				1		1	
	2. Puerperal eclampsia (child).		2	2	.020		.006	.031			1	1	5		3
	3. Icterus neonatorum.	51	27	78	.196	.272	.216	1.201	30	21	14	13	68	10	
	4. Marasmus.	99	82	181	.379	.827	.503	2.787	53	46	47	35	204	23	
	5. Prematurity.	1		1	.004		.003	.015	1					1	
	6. Sclerema.														
152	Other causes peculiar to early infancy:	10	6	16	.038	.061	.044	.246	5	5		1	11	5	
	1. Asphyxia neonatorum.	10	4	14	.038	.040	.039	.216	8	2	3	1	7	7	
	2. Atelectasis.	14	3	17	.054	.030	.047	.262	11	3	2	1	10	7	
	3. Difficult labor.	5	7	12	.019	.071	.033	.185	4	1	5	2	6	6	
	4. Hemophelia.	2		2	.007		.006	.031	1	1			2		
	5. Malpresentation.	1	1	2	.004	.011	.005	.031		1				2	
	6. Melema neonatorum.	2		2	.008		.006	.031	1	1				2	
	7. Omphalitis.		1	1		.010	.003	.015			1		1		
153	Exposure.	198	134	332	.759	1.351	.922	5.112	117	81	79	55	341		9
	Total early infancy.														

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death—Continued.

Cause of death.	Calendar year 1916.										Total deaths preceding year.	Variation in deaths in present as compared with preceding year.	
	Total deaths.			General death rates.			Per-centage of each cause to total mortality.	Deaths by race and sex.					
								White.		Colored.			
	White.	Col-ored.	All.	White.	Col-ored.	All.		Male.	Fe-male.	Male.			Fe-male.
Senility.....	78	43	121	.299	.434	.336	1.863	26	52	18	25	113	8
XII. Old age.													
XIII. External causes.													
Suicide by poison:													
1. Arsenic.....	10	2	12	.038	.020	.006	.031	4	6	1	1	1	1
2. Bichloride mercury.....	4	1	5	.015	.010	.014	.077	2	2	1	1	8	3
3. Carbolic acid.....	1	1	2	.004	.003	.003	.015	1	1			1	1
4. Lye, concentrated.....	1	1	2	.004	.003	.003	.016	1	1			1	1
5. Hydrocyanic acid.....	1	1	2	.004	.003	.003	.015	1	1			1	1
6. Nitric acid.....	1	1	2	.004	.003	.003	.016	1	1			1	1
7. Potassium cyanide.....	1	1	2	.004	.003	.003	.015	1	1			1	1
Suicide, chloroform.....	19	19	38	.073	.053	.063	.283	15	4			27	8
1. Illuminating gas.....	8	1	9	.031	.010	.025	.139	8	1	1	1	5	4
2. Hanging.....	1	1	2	.004	.003	.003	.031	1	1			7	5
3. Drowning.....	1	1	2	.004	.003	.003	.031	1	1			7	5
4. Firearms.....	23	4	27	.088	.040	.075	.416	22	1	4	1	23	4
5. Cutting instruments.....	4	1	5	.015	.010	.014	.077	3	1	1	1	2	3
6. Jumping from high places.....	3	3	6	.011	.008	.009	.046	1	2	1	1	2	1
7. Crushing.....	1	1	2	.004	.003	.003	.016						
Other means.....	3	1	4	.012	.010	.011	.062	1	2	1		3	1
Poisoning.....	1	1	2	.004	.003	.003	.015	1	1			1	1
1. Other accidental poisoning:	1	1	2	.004	.003	.003	.015	1	1			1	1
2. Nitrolic acid.....	1	1	2	.004	.003	.003	.016	1	1			1	1
3. Chloral hydrate.....	1	1	2	.004	.003	.003	.015	1	1			1	1
4. Opium.....	1	1	2	.004	.010	.006	.031	1	1	1	1	2	1
5. Cocaine.....	1	1	2	.004	.010	.006	.031	1	1	1	1	2	1
6. Confusion.....	13	13	26	.050	.031	.040	.206	5	8	4	9	47	21
Burns and scalds.....	1	1	2	.004	.010	.003	.015	1	1	1	1	1	1
1. Asphyxiated from food.....	1	1	2	.004	.011	.003	.031	1	2	1	1	2	2
2. Asphyxiated in bed.....	1	1	2	.004	.011	.003	.031	1	2	1	1	2	3
3. Ammonia gas.....	1	1	2	.004	.011	.003	.046	1	1				

169	1	4	.011	.010	.011	.002	2	1	1	1	1	1	3
170	1	16	.004	.030	.044	.006	12	1	2	1	21	1	
171	1	26	.054	.121	.072	.400	12	2	11	1	26	1	
172	1	6	.019	.010	.043	.015	4	1	1	1	9	3	
173	2	2	.008	.006	.031	.031	2	19	7	3	48	2	
174	33	63	.203	.101	.175	.970	34	1	1	1	15	15	
175	1	1	.004	.002	.015	.031	1	1	1	1	1	1	
176	2	2	.007	.005	.031	.046	3	3	1	1	2	2	
177	3	3	.012	.008	.008	.008	3	3	1	1	1	1	
178	27	36	.103	.091	.100	.554	19	8	9	16	20	20	
179	1	1	.010	.010	.003	.015	1	1	1	1	1	1	
180	5	8	.019	.031	.022	.123	5	3	3	5	3	3	
181	6	9	.023	.030	.025	.139	4	2	2	1	12	3	
182	1	2	.004	.010	.006	.031	1	1	1	1	6	4	
183	1	1	.003	.010	.003	.015	1	1	1	1	1	1	
184	2	2	.007	.005	.031	.031	2	1	1	3	2	2	
185	1	1	.004	.010	.006	.031	1	1	1	3	1	1	
186	1	1	.004	.010	.006	.031	1	1	1	3	1	1	
187	1	1	.008	.010	.002	.015	2	1	1	2	2	2	
188	2	4	.008	.020	.011	.062	2	1	1	1	1	1	
189	1	1	.004	.010	.003	.015	1	1	2	7	6	6	
190	1	2	.004	.021	.006	.031	1	1	2	2	2	2	
191	1	1	.004	.003	.015	.015	1	1	1	1	1	1	
192	2	2	.007	.006	.031	.031	2	2	2	2	2	2	
193	1	1	.004	.010	.003	.015	1	1	1	1	1	1	
194	1	1	.004	.003	.016	.016	1	1	1	1	1	1	
195	2	4	.008	.020	.011	.062	2	2	2	3	1	1	
196	1	1	.004	.010	.003	.015	1	1	1	1	1	1	
197	1	1	.010	.003	.016	.016	1	1	1	1	1	1	
198	260	106	0.997	1.069	1.017	5.636	184	76	73	33	352	14	
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XIV. Ill-defined diseases.

Ill-defined organic diseases.....
Sudden death.....

TABLE 1a.—Showing deaths (stillbirths excluded) and death rates in the District of Columbia during the calendar year 1916, arranged with reference to race and sex and classified with reference to causes of death—Continued.

189

Cause of death.

XIV. Ill-defined diseases—Continued.

Ill-defined, or not specified:

- 1. Cardiac asthma.....
- 2. Congestive fever.....
- 3. Diphtheria.....
- 4. Infantile atrophy (1 year and over).....
- 5. Marasmus (1 year and over).....
- 6. Unknown cause.....

Total ill-defined diseases.....

RECAPITULATION.

- I. General diseases.....
- II. Diseases of nervous system and organs of special sense.....
- III. Diseases of circulatory system.....
- IV. Diseases of respiratory system.....
- V. Diseases of digestive system.....
- VI. Diseases of genitourinary system.....
- VII. The pericerebral system.....
- VIII. Diseases of skin and cellular tissue.....
- IX. Diseases of organs of locomotion.....
- X. Muscles and bones.....
- XI. Early infancy.....
- XII. Old age.....
- XIII. External causes.....
- XIV. Ill-defined diseases.....

Total deaths from all causes.....

Calendar year 1916.

Total deaths.			General death rates.			Per-centage of each cause to total mortality.	Deaths by race and sex.				Total deaths in preceding year.	Variation in deaths in pre- ceding year.			
White.	Col- ored.	All.	White.	Col- ored.	All.		White.		Colored.						
							Male.	Fe- male.	Male.	Fe- male.					
1	1	1	.004	.....	.003	.015	1	.....	.....	.....	1	.....		
1	1	2	.004	.....	.003	.016	.....	1	.....	.....	.....	.....
2	2	2	.....	.020	.006	.031	.....	.....	1	1	1	.....		
1	1	1	.....	.010	.002	.015	.....	.....	.....	.....	.....	.....
3	3	3	.....	.030	.008	.046	.....	.....	2	1	6	3
1	1	1	.004	.....	.003	.016	1	.....	.....	.....	1	.....		
3	6	9	.012	.60	.025	.139	2	1	4	2	11	2			
942	704	1,646	3,611	7,101	4,572	25,346	519	423	350	354	1,639	13			
472	228	700	1,809	2,300	1,944	10,779	266	206	113	115	685	15			
760	376	1,136	2,914	3,793	3,156	17,462	416	344	194	182	1,094	42			
376	379	755	1,442	3,823	2,097	11,626	198	178	206	173	891	86			
319	221	540	1,222	2,229	1,500	8,315	169	150	111	110	535	5			
463	290	753	1,775	2,925	2,092	11,565	281	182	145	145	702	9			
30	32	62	115	.323	.172	.955	.....	30	.....	32	39	21	
17	13	30	.065	.131	.083	.462	13	4	10	3	23	.....		
11	4	15	.042	.040	.042	.231	9	2	3	1	43	2			
24	5	29	.092	.050	.081	.446	11	10	7	55	31	8			
198	134	332	759	1,351	.922	5,112	117	81	79	25	113	9			
78	43	121	.299	.434	.336	1,893	26	52	1	1	332	11			
260	106	366	.997	1,069	1,017	5,636	76	76	73	33	332	8			
3	6	9	.012	.061	.025	.139	2	1	4	2	11	2			
3,933	2,541	6,474	15,151	25,630	18,039	{ 90,968 } { 100,000 }	1,739	1,231	1,310	1,231	6,505	11			

TABLE 1b. Showing deaths (stillbirths excluded) in the District of Columbia during the calendar year 1946, arranged with reference to months, and classified with reference to race, sex, and causes of death.

Classi- fication No.	Cause of death.	Total deaths year 1916.	January.			February.			March.			April.			May.			June.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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			M.	F.	Colored.	M.	F.	Colored.	M.	F.	Colored.	M.	F.	Colored.	M.	F.	Colored.		M.	F.	Colored.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1. General diseases.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
1	Typhoid fever.....	46	3		2				1			2		1				2	1	3																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

[illegible]

	Thyroid gland, removal of.																								
	Diphtheria, acute.																								
	Epidemic.																								
	Chronic.																								
	Pneumonia, broncho- (bacterial, etc.).																								
	1. Under 1 year.																								
	2. 1 year and over.																								
	Pneumonia, lobar, etc.																								
	1. Under 1 year.																								
	2. 1 year and over.																								
	Empyema.																								
	Pleuritis.																								
	Pulmonary congestion.																								
	Pulmonary edema.																								
	Pulmonary gangrene.																								
	Asthma.																								
	Pulmonary emphysema.																								
	Other diseases of respiratory system:																								
	1. Bronchiectasia.																								
	2. Fibroid pneumonia.																								
	3. Pulmonary abscess.																								
	4. Pulmonary hemorrhage.																								
	5. Stenosis of trachea.																								
	Total diseases of respiratory system.																								
755	40	25	27	24	18	24	24	15	32	30	27	22	23	19	21	13	15	11	15	11	9	9	11	15	
V. Diseases of digestive system.																									
Diseases of mouth and adnexa:																									
	1. Parotiditis.																								
	2. Stomatitis.																								
3	2																								
2	1																								
Diseases of pharynx:																									
4	1																								
1	1																								
1	1																								
1	1																								
3	1																								
3	1																								
3	1																								
30	1																								
30	1																								
Other diseases of stomach:																									
	1. Gastritis.																								
34	1																								
16	1																								
3	1																								
175	1																								
64	1																								
Diseases of intestines:																									
	1. Duodenitis.																								
	2. Ileitis.																								
	3. Colitis.																								
	4. Appendicitis.																								
	5. Diverticulitis.																								
	6. Stenosis of intestines.																								
	7. Ulcer of intestines.																								
	8. Hemorrhoids.																								
	9. Proctitis.																								
	10. Pilonitis.																								
	11. Pyelitis.																								
	12. Nephritis.																								
	13. Cystitis.																								
	14. Vaginitis.																								
	15. Cervicitis.																								
	16. Endometritis.																								
	17. Salpingitis.																								
	18. Oophoritis.																								
	19. Pelvic peritonitis.																								
	20. Ectopic pregnancy.																								
	21. Abortion.																								
	22. Contraception.																								
	23. Sterility.																								
	24. Menstrual disorders.																								
	25. Gynecological diseases.																								

[illegible]

VII. *The puerperal state.*

[illegible]

VIII. Diseases of skin and cellular tissue.

[illegible]

5. Typhic stenosis.

Total malformations.

XI. Early infancy.

Congenital debility, icterus, sclerema:

1. Congenital debility.

2. Puerperal eclampsia (child).

3. Fetus neonatorum.

4. Marasmus.

5. Prematurity.

6. Sclerema.

Other causes peculiar to early infancy:

1. Asphyxia neonatorum.

2. Alectasis.

3. Difficult labor.

4. Hemophilia.

5. Malpresentation.

6. Melena neonatorum.

7. Omphalitis.

Exposure.

Total early infancy.

XII. Old age.

Senility.

XIII. External causes.

Suicide by poison:

1. Arsenic.

2. Bichloride mercury.

3. Carbolic acid.

4. Lye, concentrated.

5. Hydrocyanic acid.

6. Nitric acid.

7. Potassium cyanide.

Suicide:

Chloroform.

Illuminating gas.

Hanging.

Drowning.

Firearms.

Cutting instruments.

Jumping from high places.

Crushing.

Other means.

Promain poisoning.

Other accidental poisoning:

1. Carbolic acid.

2. Chloral hydrate.

3. Opium.

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[illegible]

[illegible]

[illegible]

[illegible]

106	Ankylostomiasis.....																									
107	Intestinal parasites.....																									
108	Appendicitis.....																									
109	Hernia.....																									
110	Intestinal obstruction.....																									
	Other diseases of intestines:																									
	1. Autointoxication, intestinal.....																									
	2. Diverticulitis, sigmoid.....																									
	3. Fecal impaction.....																									
	4. Intestinal gangrene.....																									
	5. Intestinal tumor.....																									
	6. Ischio-rectal abscess.....																									
	Atrophy of liver, acute yellow.....																									
111	Hydatid tumor of liver.....																									
112	Hepatic cirrhosis.....																									
113	Cholelithiasis.....																									
114	Other diseases of liver:																									
115	1. Biliary fistula.....																									
	2. Cholecystitis.....																									
	3. Hepatitis.....																									
116	4. Tumor of liver.....																									
	Diseases of spleen.....																									
117	Peritonitis.....																									
118	Pancreatitis.....																									
	Tumor of pancreas.....																									
	Total diseases of digestive system.....	42	37	43	46	6	3	8	3	2	3	2	2	1	3	1	1	1	56	45	54	58	101	112	213	
	VI. <i>Nonvenereal diseases of genito-urinary system.</i>																									
119	Nephritis, acute.....																									
120	Nephritis, chronic.....																									
121	Chyluria.....	1		1	3			1			1									1	1	1	5	2	6	8
122	Other diseases of kidneys and adnexa:																									
	1. Abscess of kidney.....																									
	2. Hematuria.....																									
	3. Pyelonephritis.....																									
123	Nephrolithiasis.....																									
124	Diseases of bladder:																									
	1. Cystitis.....																									
	2. Retention of urine.....																									
125	Diseases of urethra:																									
	1. Urethral abscess.....																									
	2. Urinary fistula.....																									
126	Diseases of prostate:																									
	1. Prostatectomy.....																									
	2. Prostatic adenoma.....																									
	3. Prostatic hypertrophy.....																									
	4. Prostatitis.....																									
127	Phlegmon's rot.....																									
128	Uterine hemorrhage (nonpuerperal).....																									
129	Uterine fibroid.....																									

141 Puerperal diseases of breast.....

Total, the puerperal state.....

VIII. Diseases of skin and cellular tissue.

142. Gangrene:

1. Of extremity.....

2. Senile.....

3. Testicle.....

Furunculosis.....

Abscess, acute:

1. Inguinal.....

2. Multiple.....

3. Pelvic.....

4. Perineal.....

5. Retroperitoneal.....

6. Cellulitis.....

Other diseases of skin and adnexa:

1. Impetigo bullosa.....

2. Pemphigus.....

3. Ulcer of leg.....

Total diseases of skin and cellular tissue.....

IX. Diseases of bones and organs of locomotion.

Diseases of bones:

1. Abscess, ethmoid.....

2. Abscess, submandibular.....

3. Empyema.....

4. Mastoiditis.....

5. Osteomyelitis.....

Arthritis.....

Amputations.....

Other diseases of organs of locomotion.....

Total diseases of bones and organs of locomotion.....

X. Malformations.

Congenital malformations:

1. Cleft palate.....

2. Hydrocephalus.....

3. Microcephalus.....

4. Patent foramen ovale.....

5. Pyloric stenosis.....

Total malformations.....

[illegible]

RECAPITULATION.

RECAPITULATION.																											
I. General diseases.....																											
II. Diseases of the nervous system and organs of special sense.....																											
III. Diseases of circulatory system.....																											
IV. Diseases of respiratory system.....																											
V. Diseases of digestive system.....																											
VI. Diseases of genito-urinary system.....																											
VII. The puerperal system.....																											
VIII. Diseases of skin and cellular tissue.....																											
IX. Diseases of organs of locomotion.....																											
X. Malformations.....																											
XI. Early infancy.....																											
XII. Old age.....																											
XIII. External causes.....																											
XIV. Ill-defined diseases.....																											
Total deaths from all causes.....																											
257	176	194	159	26	23	36	42	17	10	24	22	12	10	5	6	11	12	5	3	303	231	204	232	534	496	1,030	

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[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VIII. Diseases of skin and cellular tissue.

Gangrene:

142

1. Of extremity.....

2. Scrofula.....

3. Tetanus.....

143

Furunculosis.....

144

Abscess, acute:

1. Inguinal.....

2. Multiple.....

3. Pelvic.....

4. Perineal.....

5. Retroperitoneal.....

6. Cellulitis.....

Other diseases of skin and

adnexa:

1. Impetigo bullosa.....

2. Pemphigus.....

3. Ulcer of leg.....

Total diseases of skin and

cellular tissue.....

IX. Disease of bones and organs

of locomotion.

146

Disease of bones:

1. Abscess, ethmoid.....

2. Abscess, submandibular.....

3. Empyema.....

4. Mastoiditis.....

5. Osteomyelitis.....

Arthritis.....

Amputations.....

Other diseases of organs of loco-

motion.....

Total diseases of bones

and organs of locomotion.....

X. Malformations.

150

Congenital malformations:

1. Cleft palate.....

2. Hydrocephalus.....

3. Microcephalus.....

4. Patent foramen ovale.....

5. Pyloric stenosis.....

Total malformation.....

XII. Old age.

154

Scantly

XIII. External causes.

Suicide by poison:

1. Bichloride mercury.....
2. Carbolic acid.....
3. Iye, concentrated.....
4. Hydrocyanic acid.....
5. Nitric acid.....
6. Potassium cyanide.....

156

Suicide:

1. Chloroform.....
2. Illuminating gas.....
3. Hanging.....
4. Drowning.....
5. Firearms.....
6. Cutting instruments.....
7. Jumping from high places.....
8. Crushing.....
9. Other means.....

Premian poisoning:

1. Carbolic acid.....
2. Chloral hydrate.....
3. Plum.....

166

Conflagration

1. Burns and scalds.....
2. Absorption of deleterious gases, accidental:

1. Asphyxiation from food.....
2. Asphyxiation in bed.....
3. Anmonia gas.....
4. Ether narcosis.....
5. Illuminating gas.....
6. Nitrous oxide gas (eructed food in larynx)

169

Drowning, accidental.

1. Firearms, accidental.....
2. Puncture of bowel, accidental.....
3. Dying injury, accidental.....
4. Falls, accidental.....
5. Injured in mine, accidental.....
6. Elevator, accidental.....
7. Caught in machinery.....
8. Traumatism by vehicles, rail-ways, etc. (accidental):
9. Automobiles.....
10. Caving in bank.....
11. Railroad, steam.....

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Suicide by poison:

1. Bichloride mercury.....
2. Carbolic acid.....
3. Iye, concentrated.....
4. Hydrocyanic acid.....
5. Nitric acid.....
6. Potassium cyanide.....

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Suicide:

1. Chloroform.....
2. Illuminating gas.....
3. Hanging.....
4. Drowning.....
5. Firearms.....
6. Cutting instruments.....
7. Jumping from high places.....
8. Crushing.....
9. Other means.....

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Conflagration

1. Burns and scalds.....
2. Absorption of deleterious gases, accidental:

1. Asphyxiation from food.....
2. Asphyxiation in bed.....
3. Anmonia gas.....
4. Ether narcosis.....
5. Illuminating gas.....
6. Nitrous oxide gas (eructed food in larynx)

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Drowning, accidental.

1. Firearms, accidental.....
2. Puncture of bowel, accidental.....
3. Dying injury, accidental.....
4. Falls, accidental.....
5. Injured in mine, accidental.....
6. Elevator, accidental.....
7. Caught in machinery.....
8. Traumatism by vehicles, rail-ways, etc. (accidental):
9. Automobiles.....
10. Caving in bank.....
11. Railroad, steam.....

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

JANUARY.

Day of month.	Color.	Communicable diseases.							Rheumatism, acute.	Diarrheal diseases (dysentery excluded).			Pneumonia (all forms).	Pulmonary congestion.	Violence.				All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.		Under 2 years.	2 years and over.	Bronchitis (all forms).			Accidents and negligence.	Suicides.	Homicides, criminal.					
1	W.					1	1	1					2				2	3	5		14	1
2	W.						1	1				1	2				3	9	11			1
3	W.	1			1		1	1					2				6	7	13	28	2	2
4	W.						1						4				2	2	13	15		
5	W.												4				9	12	11	23	1	
6	W.						1					1	4				4	4	9	17		
7	W.												3				4	8	13	17		
8	W.						1					1	1				2	2	4			
9	W.						2					2	5				8	8	12	21		
10	W.																17	9	17	26	1	
11	W.						1			1							4	3	5	15		
12	W.				1	2						2					6	3	8	11	1	
13	W.					1						1	1				3	6	3			
14	W.												1				4	7	12	19	1	
15	W.												1				6	9	10	1		
16	W.												2				4	6	7	29	1	
17	W.						1					2	2				7	10	6	16	3	
18	W.											1	1				4	6	6	16	1	
19	W.												3				6	10	17			
20	W.						1					5	1				17	20	12	32	2	
21	W.											1					10	12	18	26	1	
22	W.											2	2				12	18	8			
23	W.						2					1	2				11	14	7	24	1	
24	W.	1										1	1				5	10	11	22	2	
25	W.												2				6	8	14			
26	W.											2	1				8	15	23	1		
27	W.						1					1					5	8	13	24	1	
28	W.						1					2	1				7	11	10	21	2	
29	W.											3	2				10	13	11			
30	W.											2	2				3	7	12	17	2	
31	W.											1	1				10	12	5	18	1	
Total	W.	3		0	1	17	1	2	1	1	3	58	2		14	11	0	282	399	645	31	
	C.	0		2	1	20	1	0	0	0	5	42	0		9	0	6	160	246		21	

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JANUARY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological

FEBRUARY.

Day of month.	Color.	Communicable diseases.								Rheumatism, acute.	Diarrheal diseases (dysentery excluded).		Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.				All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.		Under 2 years.	2 years and over.				Bronchitis (all forms).	Accidents and negligence.	Suicides.	Homicides, criminal.				
1	W. C.					1	2					2	1			2			6	14	20	1	
2	W. C.						3					1	1						3	6	15	1	
3	W. C.			1		1	1					3	1						5	8	19	1	
4	W. C.					4	4					3	2			1	1		4	5	26	1	
5	W. C.			1		1	1					1	1			1			4	9	14	1	
6	W. C.					1	3					3	1			1			6	8	22	1	
7	W. C.						3					2	1						1	6	12	1	
8	W. C.						2					1	1			2			3	6	12		
9	W. C.						2					2	2			1			6	6	17	1	
10	W. C.	1				1	2					1	1			1			4	9	17	1	
11	W. C.					4	4					1	1						3	5	23	2	
12	W. C.					2	1					2	1						4	9	20	2	
13	W. C.					1	1					2	1						5	15	18	3	
14	W. C.					2	2	1				1	1						11	7	12	1	
15	W. C.					1	1					1	1						2	5	9	1	
16	W. C.					1	1					4	2			1			1	3	12	1	
17	W. C.					2	2					2	2						6	13	22	2	
18	W. C.					1	1					1	1			1	1		7	9	27	2	
19	W. C.					2	1		1			2	1					16	6	18	27	2	
20	W. C.					1	1					1	1					6	8	9	21	1	
21	W. C.					1	1					1	1			1			4	14	19	1	
22	W. C.					1	1					1	1						8	5	14	3	
23	W. C.					1	1					2	1			1			12	14	25	2	
24	W. C.					1	1					1	1						8	11	15	2	
25	W. C.					1	1					2	1			1			5	7	15	3	
26	W. C.					2	1					3	2						12	14	25	2	
27	W. C.	1				2	2					1	1			1			5	7	15	3	
28	W. C.					2			1			3	3						7	8	17	1	
29	W. C.					3						1	1						4	11	18	1	
30	W. C.						1					1	1						3	7	13	1	
31	W. C.																		13	11	24	1	
Total.	W. C.	20	1	0	5	31	10	1	1	2	2	4	3	38		13	6	1	243	353	561	36	
	C.	0	1	1	0	39	0	1	1	0	1	2	1	36		3	0	0	123	208	209	20	

year 1916, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

FEBRUARY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

MARCH.

Day of month.	Color.	Communicable diseases.						Diarrheal diseases (dysentery excluded).	Violence.																	
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.		Meningitis epidemic.	Pellagra.	Rheumatism, acute.	Under 2 years.		2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.			Suicides.	Homicides, criminal.			
1.	W						1							3					1				12	17	22	
2.	W						3						1	2								10	3	5		
3.	C						1						1	1								3	4	7	19	
4.	W	1				1	1						1	1								10	3	7	10	
5.	C						1						1	1					2			10	13	1	19	
6.	W						1						1	1					1			11	1	6	1	
7.	C						1						2	1					1			10	14	1	23	
8.	W						1						1	1					1			10	14	1	23	
9.	C						1						1	1					1			10	14	1	23	
10.	W						1						1	1					2			11	7	9	20	
11.	C						1						1	1					1			11	8	8	1	
12.	W						1		1				1	2					1	1	2	10	10	5	15	
13.	C						1						1	1								8	2	9	1	
14.	W						1						1	1								12	6	7	16	
15.	C						1						1	1								12	7	7	22	
16.	W						1						1	1								13	9	9	1	
17.	C						1						3	3					3			15	8	2	25	
18.	W						1						1	1								10	6	1	9	
19.	C						1						1	1								15	2	8	1	
20.	W						1						1	1								16	1	1	9	
21.	C						1						1	1								13	5	6	21	
22.	W						1						1	1								12	4	6	1	
23.	C						1						2	2					1	1		13	16	8	24	
24.	W						1						1	1								13	7	4	17	
25.	C						1						1	1					1			9	4	5	23	
26.	W						1						1	1								8	7	7	9	
27.	C						1						1	1					1			10	14	9	23	
28.	W						1						1	1								14	9	9	2	
29.	C						1						1	1								15	17	14	31	
30.	W						1						1	1								15	22	7	33	
31.	C						1						1	2					2			11	14	1	1	
	W						3						2	2					1			12	8	8	26	
	C						1						1	2								11	3	3	11	
	W						1						1	1								9	9	9	14	
	C						1						1	1								10	3	3	8	
	W						1						1	1								11	16	1	25	
	C						1						1	1					1			13	3	9	1	
	W						1						1	1					3			13	19	2	30	
	C						1						1	1								10	3	3	16	
	W						1						1	1								11	11	5	16	
	C						1						1	1					1			9	14	2	19	
	W						1						1	1								6	3	5	3	
	C						1						1	4								10	12	7	19	
	W						1						1	1								15	17	9	26	
	C						1						1	1					2			11	6	6	1	
	W						3						1	2					2			11	7	7	24	
Total.	W. C.	1 0	2 0	0 1	0 2	28 30	1 0	1 0	0 3	1 3	3 8	54 35	0 1	20 7	7 2	0 3	298 140	418 234	652	33 25						

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

APRIL.

Day of month.	Color.	Communicable diseases.								Rheumatism, acute.	Diarrheal diseases (dysentery excluded).				Violence.				Deaths, by color.	Total deaths.	Deaths under 1 year.	
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.		Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.					
																	Accidents and negligence.	Suicides.				Homicides, criminal.
1.	W.						1					1							11	14	19	
2.	C.						1					4							3	5		
3.	W.						1												12	17	24	
4.	C.						1					5							6	7		
5.	W.						2					4							6	13	24	
6.	C.						1												5	11		
7.	W.						2					2							7	8	19	
8.	C.						1				1	1							7	11		
9.	W.						1												17		1	
10.	C.						1					1			1				4	6	23	
11.	W.						2				1	1			1				11	12		
12.	C.						1				1	1							12	13	25	
13.	W.						1								1				5	8		
14.	C.						1			2									2	2	10	
15.	W.						1				1	1			1				11	14		
16.	C.						1				5	2							4	8	22	
17.	W.						1				1	1			1				10	15		
18.	C.						1				1	1							3	3	23	
19.	W.						2					2							6	7	10	
20.	C.						3				1	1			1				7	12		
21.	W.						1												2	6	18	
22.	C.						1				1	1							12	14	22	
23.	W.						2					2			1				7	8		
24.	C.						1					4			1				9	11	20	
25.	W.						1					1							4	9		
26.	C.						2					2			1				5	13	18	
27.	W.						1					1							3	5		
28.	C.						1					1			1				7	10	15	
29.	W.						3					2							2	5		
30.	C.						1					3			1				9	13		
31.	W.						1					1							10	15		
32.	C.						1					1							7	11		
33.	W.						1					1							9	11		
34.	C.																					

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APRIL.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

MAY.

Day of month.	Color.	Communicable diseases.							Diarrheal diseases (dysentery excluded).	Violence.							All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.			
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.		Pellagra.	Rheumatism, acute.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.					Strokes.	Accidents and negligence.	Suicides.	Homicides, criminal.
1.	W. C.					1	1					1	1							11	13	22	2
2.	W. C.						2					1	1							6	9	16	1
3.	W. C.						1						1							4	10	1	1
4.	W. C.				1		2						1				1			9	6	20	1
5.	W. C.																2			3	13	16	1
6.	W. C.						1						2							3	3	15	2
7.	W. C.						1						1				1			7	10	1	1
8.	W. C.						1						1							4	5	16	1
9.	W. C.				1		1						2				1		1	6	8	15	2
10.	W. C.						3						1							2	6	1	1
11.	W. C.						3			1			2							9	14	18	1
12.	W. C.					1	2						1				1	2		3	8	17	2
13.	W. C.						1										2			2	4	12	1
14.	W. C.						2						1							3	8	12	1
15.	W. C.						1													3	4	12	1
16.	W. C.						2													3	5	12	1
17.	W. C.						3			1			1				1			7	9	21	1
18.	W. C.						1			1										5	8	17	1
19.	W. C.	1					4					1	1				1			7	12	17	1
20.	W. C.	1		1		1	2					1	1							8	9	11	1
21.	W. C.						1						1							4	7	18	1
22.	W. C.												1							6	11	12	1
23.	W. C.												1							3	9	12	1
24.	W. C.												1							2	3	2	2
25.	W. C.												1							8	10	12	1
26.	W. C.						1										1			2	2	21	1
27.	W. C.						1			1			1							6	9	1	1
28.	W. C.												1				1			2	2	11	1
29.	W. C.												1							10	14	27	3
30.	W. C.												1							9	13	1	1
31.	W. C.				1		1						4							12	15	19	1
	W. C.						4										1			2	6	16	2
	W. C.						2						1							8	10	1	1
	W. C.						2						1							2	5	13	1
	W. C.						2			1			1							7	9	17	1
	W. C.						2						1				1			5	8	3	3
	W. C.	1					4			1	1		2							3	7	17	1
	W. C.						1						2							6	10	1	1
	W. C.				1		1						2							4	7	17	2
	W. C.						2						1							8	11	18	2
Total.	W. C.	0	0	1	2	2	27			2	2	1	3	22	0		12	8	1	227	310	507	33
	C.	3	1	0	1	2	38			2	4	2	3	20	1		2	1	0	117	197	2	2

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MAY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

JUNE.

Day of month.	Color.	Communicable diseases.								Rheumatism, acute.	Diarrheal diseases (dysentery excluded).		Pulmonary tuberculosis.	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.	
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Meningitis epidemic.	Pellagra.	Under 2 years.		2 years and over.	Bronchitis (all forms).					Pneumonia (all forms).	Accidents and negligence.	Suicides.					Homicides, criminal.
1.	W.						1						1	1					7	10	14			
2.	W.	1					3												6	4				
3.	W.						1						3						5	7	13			
4.	W.						1						1						3	6	12			
5.	W.						2						1						9	6	15			
6.	W.						1						1						10	7	15			
7.	W.				1		1						1						4	8	14			
8.	W.						4			1			1						7	6	13			
9.	W.											1	1						8	8	15			
10.	W.		1						1										5	9	15			
11.	W.	1					1		1				1						5	6	12			
12.	W.				1							1							3	7	11			
13.	W.						2					1							5	5	11			
14.	W.				1		1						1						5	8	15			
15.	W.						2					1	1						2	7	16			
16.	W.						1					1							6	9	2			
17.	W.						3												5	8	12			
18.	W.							1											13	15	21			
19.	W.						1						1						3	6	1			
20.	W.	1					1							2					8	9	13			
21.	W.						1						1						3	3	11			
22.	W.		1				2												6	7	17			
23.	W.				1		1												7	9	1			
24.	W.						1						1						2	4	14			
25.	W.						1												6	7	11			
26.	W.						1												3	4	1			
27.	W.						2												5	6	17			
28.	W.	1					1												6	7	13			
29.	W.						2						1						4	5	17			
30.	W.	1					2		1				2						10	12	20			
31.	W.																		2	8	1			
Total.	W.	3	1	0	3	22	0	1	0	2	3	11			8	3	0	210	271	444	28			
	C.	2	1	0	5	26	1	0	1	3	0	5	20		4	1	3	101	173		22			

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JUNE.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con
JULY.

Day of month.	Color.	Communicable diseases.						Diarrheal diseases (dysentery excluded).	Rheumatism, acute.	Violence.														
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.			Meningitis epidemic.	Pellagra.	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Accidents and negligence.	Suicides.	Homicides, criminal.	All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
1.	W.				1															2	3	5	2	
2.	C.						1						1							2	4	9	1	
3.	W.									1										5	8	13	1	
4.	C.	1									2						1			5	7	17	1	
5.	W.				1		3			1			1			1				4	11	4	1	
6.	C.									2										6	13	24	4	
7.	W.				1		1			1			1							8	14	15	1	
8.	C.									1										4	9	19	1	
9.	W.						1			1			3							5	8	21	1	
10.	C.									2			1			3				6	13	14	2	
11.	W.						1			1										5	8	13	2	
12.	C.	1	1				1			1	1					1				3	12	16	1	
13.	W.						1						1							6	4	24	2	
14.	C.	1	1		1		1			1						4	1			7	10	17	4	
15.	W.								1				1			1	1			4	6	17	3	
16.	C.	1					1			2										10	13	20	1	
17.	W.				1		1			1	1									9	11	21	4	
18.	C.												1							8	7	17	1	
19.	W.						2			1						1	1			6	9	17	3	
20.	C.	1					1			1			1							10	13	20	1	
21.	W.															1				4	7	11	1	
22.	C.	1					1			1	1					2	1			5	10	16	3	
23.	W.				1		1			2										3	7	12	2	
24.	C.								1	1										7	9	16	2	
25.	W.						4						1							8	12	20	1	
26.	C.									1								1		5	3	16	1	
27.	W.															2				3	4	16	1	
28.	C.				1		3			3			1							6	9	27	4	
29.	W.						2			3										4	10	17	2	
30.	C.				1		4			1	5		1							6	9	25	2	
31.	W.									2										5	10	13	3	
	C.									1	2									1	3	20	1	
	W.						3									1				8	12	20	2	
	C.	1								2						1	1			6	8	17	1	
	W.																			3	7	10	1	
	C.															1				10	14	25	1	
Total	W. C.	3 4	2 0	...	4 6	...	21 32	...	2 0	1 0	21 40	7 6	...	8 9	...	18 9	6 0	2 1	202 141	298 248	546	551 561		

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JULY.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

AUGUST.

Day of month.	Color.	Communicable diseases.							Diarrheal diseases (dysentery excluded).	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.	
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.								Pellagra.	Accidents and negligence.	Suicides.					Homicides, criminal.
1.....	W.	...	...	...	...	...	3	...	...	1	...	...	2	...	...	1	...	...	5	7	18	1
2.....	C.	...	...	...	...	...	1	...	...	2	...	...	2	...	...	...	...	4	11	9	16	3
3.....	W.	...	...	...	...	...	1	...	...	1	...	...	1	...	...	...	...	4	7	7	2	1
4.....	C.	2	...	...	...	...	2	...	1	1	...	...	1	...	...	...	...	4	10	10	20	2
5.....	W.	...	...	...	...	...	1	...	...	1	...	...	2	...	...	1	...	4	7	7	14	1
6.....	C.	1	...	...	...	...	3	...	...	...	...	...	1	...	...	1	...	4	6	2	13	3
7.....	W.	...	...	1	...	...	1	...	...	2	...	...	...	...	...	...	...	4	11	12	13	3
8.....	C.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	4	8	5	20	1
9.....	W.	2	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	3	4	4	9	2
10.....	C.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	6	7	7	15	1
11.....	W.	1	...	...	...	...	1	...	...	2	...	...	...	...	...	...	2	4	5	9	17	2
12.....	C.	...	...	...	...	...	1	...	...	3	...	...	...	...	1	1	...	3	3	7	21	5
13.....	W.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	6	8	8	13	1
14.....	C.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	4	7	5	13	1
15.....	W.	...	...	...	...	...	1	...	...	3	...	...	...	...	...	...	...	7	10	7	20	7
16.....	C.	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	4	7	7	14	1
17.....	W.	...	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	7	10	4	14	1
18.....	C.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	3	4	9	11	1
19.....	W.	1	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	7	2	2	11	3
20.....	C.	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	6	11	7	18	3
21.....	W.	...	...	...	...	...	3	...	...	1	...	...	...	...	...	...	...	4	5	8	10	1
22.....	C.	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	5	7	2	16	3
23.....	W.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	8	11	2	17	1
24.....	C.	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	4	6	6	13	3
25.....	W.	1	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	7	16	8	24	1
26.....	C.	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	3	7	7	17	1
27.....	W.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	6	10	8	18	3
28.....	C.	...	...	...	...	...	2	...	...	3	...	...	...	...	...	...	...	4	5	8	13	1
29.....	W.	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	7	7	7	14	4
30.....	C.	...	...	...	...	...	1	...	...	1	...	...	...	...	...	...	...	2	11	4	13	2
31.....	W.	...	...	...	...	...	1	...	...	2	...	...	...	...	...	...	...	8	9	9	17	3
	C.	...	...	...	...	...	2	...	...	1	...	...	...	...	...	...	...	1	2	6	15	1
	W.	...	...	...	...	...	4	...	...	2	...	...	...	...	...	...	...	6	7	7	18	1
Total.	W.	3	...	1	...	14	...	1	2	22	6	3	11	...	1	14	1	181	265	253	488	47	
	C.	5	...	2	...	38	...	0	0	26	3	2	16	...	1	7	0	122	223	223		43	

year 1916, arranged with reference to race, cause of death, and corresponding daily conditions—Continued.

AUGUST.

Mean thermometer (actual).	Mean relative humidity.	Temperature (exposed bulb).				Mean wet bulb.	Mean dew point.	Direction of wind.		Total movement of wind.	Rainfall (inches).	Day of month.
		Maximum.	Minimum.	Range.	Mean.			8 a. m.	8 p. m.			
30.09	67	82	65	17	74	67.2	63.0	N.....	N.....	155	0	1
30.15	64	80	65	15	72	64.0	58.0	E.....	SE....	144	0	2
30.04	80	83	60	23	72	67.2	64.5	N.....	S.....	71	0	3
30.06	86	86	70	16	78	71.6	70.5	SW....	N.....	70	.13	4
30.07	90	89	69	20	79	75.4	74.5	E.....	SE....	74	0	5
30.06	83	91	74	17	82	75.3	73.5	NE....	S.....	69	1.46	6
29.98	80	91	73	18	82	76.4	74.5	SW....	SW....	115	0	7
29.80	84	94	72	22	83	74.0	72.5	SW....	N.....	128	.17	8
29.83	76	86	72	14	79	72.6	70.0	NW....	W....	109	T.	9
30.04	78	84	68	16	76	69.2	67.0	NE....	NE....	148	0	10
30.12	83	80	68	12	74	69.2	67.5	E.....	SE....	131	0	11
29.99	76	88	67	21	78	72.5	70.0	NW....	NW....	157	0	12
29.88	72	75	61	14	68	62.3	59.5	SE....	N.....	119	.19	13
29.97	67	79	56	23	68	58.9	55.0	NW....	SW....	131	0	14
29.90	80	82	61	21	72	66.6	64.0	S.....	S.....	80	0	15
29.96	94	76	66	10	71	69.2	68.5	N.....	N.....	83	.30	16
30.12	82	78	62	26	75	68.5	66.5	N.....	0	83	0	17
30.14	74	87	65	22	76	67.4	64.0	NW....	N.....	81	0	18
30.12	72	86	66	20	76	68.3	64.5	N.....	0	100	0	19
30.08	78	87	64	23	76	68.3	66.0	N.....	N.....	78	0	20
29.94	78	94	68	26	81	74.3	72.5	0	W.....	77	0	21
29.88	76	97	72	25	84	75.8	73.5	SW....	W.....	83	0	22
29.80	82	88	69	19	78	68.6	67.0	S.....	NW....	145	.05	23
29.86	72	78	54	14	71	62.6	59.0	NW....	SW....	161	0	24
29.92	74	88	59	29	74	64.8	61.5	0	S.....	64	0	25
29.91	85	91	62	29	76	68.5	67.0	W.....	SW....	71	0	26
29.97	82	92	61	31	76	66.3	65.4	W.....	S.....	88	.45	27
30.10	81	74	60	14	67	62.9	61.0	SW....	N.....	189	.08	28
30.21	74	74	56	18	65	60.4	66.5	NE....	W.....	110	0	29
30.14	80	81	62	19	72	64.4	62.0	W.....	SW....	58	T.	30
30.15	82	89	60	29	74	66.1	64.0	SW....	S.....	62	0	31

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SEPTEMBER.

[illegible]

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

OCTOBER.

Day of month.	Color.	Communicable diseases.						Diarrheal diseases (dysentery excluded).	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths, by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis epidemic.	Pellagra.	Rheumatism, acute.					Accidents and negligence.	Suicides.	Homicides, criminal.				
1.....	W.	1					1											11	12	14	1
2.....	C.						1											2	2	1	1
3.....	W.																	4	11	21	1
4.....	C.																	10	10	2	2
5.....	W.																	9	8	19	2
6.....	C.																	3	7	15	1
7.....	W.																	4	7	1	1
8.....	C.																	7	13	17	1
9.....	W.																	4	4	2	2
10.....	C.																	3	3	7	1
11.....	W.	1																3	9	14	4
12.....	C.																	4	3	1	1
13.....	W.																	4	4	1	1
14.....	C.																	3	3	1	1
15.....	W.																	3	3	1	1
16.....	C.																	7	9	13	3
17.....	W.																	1	1	1	1
18.....	C.																	5	8	18	1
19.....	W.																	5	7	12	1
20.....	C.																	4	4	1	1
21.....	W.																	2	2	1	1
22.....	C.																	6	6	1	1
23.....	W.																	3	5	8	1
24.....	C.																	4	3	7	1
25.....	W.																	6	6	1	1
26.....	C.																	4	4	1	1
27.....	W.																	7	7	1	1
28.....	C.																	6	6	1	1
29.....	W.																	4	4	1	1
30.....	C.																	2	2	1	1
31.....	W.																	16	17	33	6
Total.	W.	1																24	303	485	39
	C.	2																110	182	30	30

year 1916, arranged with reference to race, cause of death, and corresponding daily
ditions—Continued.

OCTOBER.

Mean barometer (actual).	Mean relative humidity.	Temperature (exposed bulb).				Mean wet bulb.	Mean dew point.	Direction of wind.		Total movement of wind.	Rainfall (inches).	Day of month.
		Maximum.	Minimum.	Range.	Mean.			8 a. m.	8 p. m.			
30.40	69	62	38	24	50	41.2	35.5	N....	N....	138	0	1
30.36	74	64	37	27	50	44.0	39.5	N....	NW...	107	0	2
30.26	72	67	46	21	56	49.5	45.5	N....	NW...	113	0	3
30.32	56	73	53	20	63	54.0	46.5	NE...	NE...	143	0	4
30.34	95	76	57	19	66	60.6	59.5	NE...	SE....	84	T.	5
30.17	91	81	60	21	70	64.8	64.0	SW...	S.....	80	T.	6
30.18	82	83	59	24	71	60.6	58.5	0	N....	75	0	7
30.10	86	87	55	32	71	62.2	60.5	0	S.....	58	0	8
29.94	82	85	60	25	72	65.6	63.5	S.....	NW...	147	0 .03	9
30.29	58	60	37	23	48	40.0	32.5	N....	NW...	259	0.01	10
30.26	65	64	36	28	50	41.8	35.5	W....	NW...	76	0	11
30.25	76	70	38	32	54	46.0	42.5	W....	S.....	83	0	12
30.02	69	66	51	15	58	53.2	49.0	S.....	W....	167	.09	13
30.21	60	60	40	20	50	41.8	35.0	W....	NW...	175	0	14
30.06	78	66	36	30	51	49.0	46.0	SW...	SW...	97	.02	15
29.88	86	64	56	8	60	57.0	56.0	W....	N....	63	.04	16
30.02	65	68	46	22	57	54.0	48.0	SW...	N....	252	T.	17
30.41	66	57	37	20	47	42.2	37.0	N....	E.....	175	.05	18
29.88	92	75	48	27	62	63.6	62.5	E.....	S.....	272	1.24	19
29.68	81	82	63	19	72	64.2	61.5	S.....	SW...	193	.02	20
29.89	57	64	44	20	54	42.4	34.5	NW...	NW...	261	0	21
30.26	63	57	40	17	48	39.6	33.0	NW...	NW...	141	0	22
30.40	69	60	40	20	50	40.7	35.5	N....	N....	141	0	23
30.32	84	65	37	28	51	43.2	41.0	W....	N....	40	0	24
30.06	90	62	37	25	50	45.6	44.5	N....	SW...	125	0	25
30.08	62	60	39	21	50	42.2	35.0	NW...	N....	155	0	26
30.19	68	64	35	29	50	40.8	34.5	NW...	SW...	66	0	27
30.34	74	67	38	29	52	42.6	38.0	S.....	NW...	70	0	28
30.32	86	67	36	31	52	45.8	44.0	W....	S.....	67	0	29
30.13	92	68	49	19	58	56.2	55.5	N....	N....	65	0	30
29.96	85	69	49	20	59	54.0	52.5	N....	SE....	80	.26	31

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con
NOVEMBER.

Day of month.	Color.	Communicable diseases.						Rheumatism, acute.	Diarrheal diseases (ysentery excluded).		Pneumonia (all forms).	Pneumonia (all forms).	Pneumonia congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.		Under 2 years.	2 years and over.					Accidents and negligence.	Suicides.	Homicides, criminal.				
1.....	W.						1		1						1			9	12	22	2
2.....	C.						2			1								8	10	18	1
3.....	W.						1				1				1			6	7	13	1
4.....	C.						2				1							7	8	15	1
5.....	W.						1				1				1			5	6	11	1
6.....	C.						3				1							2	3	5	1
7.....	W.				1		2				1							5	6	11	1
8.....	C.						1		1		2	1			1			3	4	7	2
9.....	W.	1					1				1							10	11	21	1
10.....	C.						1				1				1			6	7	13	1
11.....	W.						3				1							8	9	17	1
12.....	C.						2				1							9	10	19	1
13.....	W.						1				1							2	3	5	1
14.....	C.						2				1				1			9	10	19	1
15.....	W.						1				2							14	15	29	2
16.....	C.						1				1				1			4	5	9	1
17.....	W.						1				2				1			6	7	13	1
18.....	C.	1					2			1	2	1						5	6	11	1
19.....	W.						1				1							2	3	5	1
20.....	C.						2				1				1			10	11	21	1
21.....	W.						1				1							2	3	5	1
22.....	C.						2				1							6	7	13	1
23.....	W.						1				1				1			10	11	21	1
24.....	C.						2				1							2	3	5	1
25.....	W.						1				1				1			6	7	13	1
26.....	C.						2				1							10	11	21	1
27.....	W.						1				1							2	3	5	1
28.....	C.						2				1				1			6	7	13	1
29.....	W.						1				1							10	11	21	1
30.....	C.						2				1							2	3	5	1
Total.....	W.	2					1		2	5	4	24	2	19	10			247	341	588	17
	C.	1					0		0	3	3	27	1	3	1			113	187	19	3

TABLE 2.—Showing the daily mortality in the District of Columbia during the calendar meteorological con

DECEMBER.

Day of month.	Color.	Communicable diseases.						Diarrheal diseases (dysentery excluded).	Under 2 years.	2 years and over.	Bronchitis (all forms).	Pneumonia (all forms).	Pulmonary congestion.	Sunstrokes.	Violence.			All other diseases.	Deaths by color.	Total deaths.	Deaths under 1 year.
		Typhoid fever.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria.	Pulmonary tuberculosis.	Meningitis, epidemic.	Pellagra.	Rheumatism, acute.					Accidents and negligence.	Suicides.	Homicides, criminal.				
1.....	W.						1			1	1							7	2	12	1
2.....	W.						1			1								5	6	11	1
3.....	W.						2			1		1						9	9	16	1
4.....	W.											1			2			2	3	14	
5.....	W.						3											6	3	11	1
6.....	W.																	6	9	15	
7.....	W.										1							8	8	17	2
8.....	W.										1	3			1	1		9	14	23	2
9.....	W.										1	1			1			4	9	10	1
10.....	W.										1	1						7	11	14	
11.....	W.									1	1	1						11	14	17	3
12.....	W.									1	1							7	3	14	1
13.....	W.														1			1	7	13	
14.....	W.											3						4	7	11	2
15.....	W.											2						2	2	10	1
16.....	W.											2						7	10	18	1
17.....	W.											2						6	8	15	2
18.....	W.											1				1	1	10	15	19	
19.....	W.											2						2	4	17	1
20.....	W.											2						7	6	13	4
21.....	W.											2						13	18	27	
22.....	W.											2						4	9	14	1
23.....	W.											2						12	14	22	
24.....	W.											2						8	8	19	
25.....	W.											3			1			3	7	11	
26.....	W.											1			1			10	10	13	
27.....	W.											1			1			6	11	17	2
28.....	W.											3			1			7	10	24	1
29.....	W.											1			1			11	6	17	1
30.....	W.											1			1			4	7	11	
31.....	W.											2						10	7	17	1
Total..	W.	1			1	3	24			1	2	5	27		17	8	1	270	360	560	28
	C.	0			1	1	17			4	3	3	26		6	2	6	131	200		20

¹ Estimated.

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DECEMBER.

[illegible]

TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1916, inclusive.

WHITE MALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.		Yr. mo. d.	
1901-1905 ¹	1,875	41 8 7	1,487	52 3 24	79.31
1905-1910 ¹	2,021	43 11 17	1,633	54 3 1	80.80
1911-1915 ¹	2,229	47 7 8	1,725	55 10 13	85.01
1911.....	2,089	46 0 28	1,739	55 2 23	83.24
1912.....	1,976	46 5 3	1,658	55 2 19	83.91
1913.....	1,987	47 4 26	1,678	56 0 2	84.45
1914.....	1,955	49 9 28	1,712	56 9 23	87.57
1915.....	2,137	48 3 16	1,837	56 1 0	85.96
1916.....	2,214	48 7 6	1,911	56 2 11	86.31

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.			Yr. mo. d.	
1901-1905 ¹	1,398	54 9 29	74.56	1,057	62 9 9	56.37
1905-1910 ¹	1,548	56 6 20	76.58	1,217	63 7 6	60.61
1911-1915 ¹	1,650	58 0 12	81.32	1,342	63 11 27	66.14
1911.....	1,665	57 1 12	70.12	1,322	63 11 11	63.28
1912.....	1,587	57 1 15	80.31	1,261	63 9 12	63.81
1913.....	1,603	58 0 13	80.67	1,303	64 2 28	65.57
1914.....	1,642	58 8 20	83.99	1,371	64 2 8	70.13
1915.....	1,754	58 2 3	82.08	1,451	63 9 19	67.89
1916.....	1,824	58 3 29	82.38	1,511	64 0 8	68.24

WHITE FEMALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.		Yr. mo. d.	
1901-1905 ¹	1,519	43 5 16	1,221	52 3 14	80.38
1905-1910 ¹	1,605	45 5 27	1,308	55 7 22	81.47
1911-1915 ¹	1,636	49 7 10	1,405	57 5 19	85.88
1911.....	1,650	47 0 17	1,357	57 0 17	82.24
1912.....	1,630	50 1 4	1,412	56 10 12	86.62
1913.....	1,581	48 2 26	1,340	56 9 6	84.75
1914.....	1,538	50 7 16	1,343	57 10 23	87.32
1915.....	1,781	52 0 19	1,575	58 9 7	88.43
1916.....	1,739	51 9 7	1,508	59 6 28	86.71

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		Yr. mo. d.			Yr. mo. d.	
1901-1905 ¹	1,144	56 6 0	75.31	867	64 11 6	57.08
1905-1910 ¹	1,299	58 4 18	76.56	981	65 3 6	61.04
1911-1915 ¹	1,337	59 11 11	81.72	1,133	66 7 1	69.25
1911.....	1,288	59 5 5	78.06	1,037	66 6 24	62.85
1912.....	1,347	59 11 2	82.62	1,102	66 6 10	67.61
1913.....	1,263	59 4 22	79.89	1,020	66 2 20	64.52
1914.....	1,281	60 1 2	83.29	1,263	66 4 5	82.12
1915.....	1,504	60 10 26	84.45	1,245	67 3 6	69.60
1916.....	1,446	61 6 27	83.15	1,236	66 10 10	71.08

¹ Annual average for 5-year period.

TABLE 3.—Deaths and average age of decedents in the District of Columbia, arranged according to age, sex, and race, with percentages to total corresponding mortality, from 1901 to 1916, inclusive—Continued.

COLORED MALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		<i>Yr. mo. d.</i>		<i>Yr. mo. d.</i>	
1901-1905 ¹	1,332	28 2 28	851	43 1 21	63.89
1906-1910 ¹	1,375	30 7 22	957	43 8 11	69.61
1911-1915 ¹	1,289	34 4 14	981	45 0 18	76.11
1911.....	1,319	33 0 6	986	43 11 6	75.75
1912.....	1,348	33 11 26	1,021	44 7 26	75.74
1913.....	1,253	34 7 26	939	45 11 23	74.94
1914.....	1,214	34 10 21	930	45 3 26	76.60
1915.....	1,311	35 3 22	1,027	45 4 9	78.41
1916.....	1,310	36 9 24	1,046	45 11 3	79.85

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		<i>Yr. mo. d.</i>			<i>Yr. mo. d.</i>	
1901-1905 ¹	761	46 6 15	57.88	475	57 8 2	35.56
1906-1910 ¹	869	46 9 17	63.21	525	57 8 4	38.19
1911-1915 ¹	910	47 5 28	70.60	579	57 2 20	44.92
1911.....	901	46 10 4	68.31	548	57 7 8	41.55
1912.....	931	47 8 1	69.06	603	56 11 4	44.73
1913.....	880	48 2 7	70.23	573	57 7 28	45.73
1914.....	878	47 2 3	72.32	551	57 1 4	45.38
1915.....	961	47 7 8	73.30	618	56 9 26	47.14
1916.....	986	47 11 13	75.27	628	57 5 24	47.94

COLORED FEMALES.

Year.	All ages.		5 years and over.		
	Deaths.	Average age.	Deaths.	Average age.	Percentage to all deaths.
		<i>Yr. mo. d.</i>		<i>Yr. mo. d.</i>	
1901-1905 ¹	1,315	29 4 17	898	40 11 27	68.29
1906-1910 ¹	1,304	31 0 7	930	43 1 23	71.32
1911-1915 ¹	1,234	35 1 27	965	44 7 25	78.20
1911.....	1,245	33 6 22	919	45 2 7	73.81
1912.....	1,305	33 8 18	988	44 3 10	75.71
1913.....	1,185	34 11 3	919	44 10 12	77.55
1914.....	1,159	36 3 26	951	44 1 5	82.05
1915.....	1,276	37 3 5	1,046	45 1 1	81.97
1916.....	1,231	37 3 4	999	45 8 20	81.15

Year.	20 years and over.			40 years and over.		
	Deaths.	Average age.	Percentage to all deaths.	Deaths.	Average age.	Percentage to all deaths.
		<i>Yr. mo. d.</i>			<i>Yr. mo. d.</i>	
1901-1905 ¹	764	47 1 1	58.10	471	57 8 1	35.82
1906-1910 ¹	814	47 3 27	62.43	496	57 6 1	38.00
1911-1915 ¹	865	48 3 20	70.09	556	58 8 22	45.06
1911.....	828	48 7 21	66.51	533	59 5 11	42.81
1912.....	876	48 1 27	67.13	555	58 8 24	42.53
1913.....	829	48 3 1	69.96	527	58 11 5	44.47
1914.....	840	48 0 25	72.47	539	58 2 9	46.50
1915.....	952	48 4 28	74.61	626	58 4 3	49.06
1916.....	894	49 5 9	72.62	598	59 3 1	48.57

¹ Annual average for 5-year period.

TABLE 4.—*Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race, age, and by months, during calendar year 1916.*

Age.	January.		February.		March.		April.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Under 1 day.....	5	4	6	5	10	1	10	6
1 day to 1 week.....	7	6	11	4	6	4	1	1
1 week to 1 month.....	6	2	5	6	6	1	1	3
1 to 2 months.....	3	1	3	2	2	3	3	2
2 to 3 months.....	1	1	1	2	2	5	3	2
3 to 4 months.....	2	2	3	3	2	1	2	1
4 to 5 months.....	2	2	3	1	2	1	1	1
5 to 6 months.....	1	1	1	1	1	1	2	1
6 to 7 months.....	3	1	1	1	2	2	2	1
7 to 8 months.....	1	2	1	2	2	2	2	1
8 to 9 months.....	1	1	1	1	3	3	1	1
9 to 10 months.....	1	1	1	2	1	2	2	1
10 to 11 months.....	1	1	2	2	4	1	1	1
11 to 12 months.....	1	1	2	2	4	1	1	1
Total.....	31	21	36	26	33	25	30	15

Age.	May.		June.		July.		August.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Under 1 day.....	7	4	10	2	10	4	6	4
1 day to 1 week.....	6	5	4	5	11	3	2	3
1 week to 1 month.....	6	2	6	2	3	2	6	2
1 to 2 months.....	4	1	1	2	1	4	7	2
2 to 3 months.....	3	3	1	2	3	7	3	1
3 to 4 months.....	1	2	1	1	1	7	3	2
4 to 5 months.....	2	2	2	2	5	1	3	6
5 to 6 months.....	1	2	1	3	4	8	4	6
6 to 7 months.....	1	2	3	2	2	8	4	5
7 to 8 months.....	2	2	2	1	2	2	4	3
8 to 9 months.....	2	3	3	3	3	5	2	4
9 to 10 months.....	1	4	1	7	7	2	2	3
10 to 11 months.....	1	1	1	2	2	2	4	2
11 to 12 months.....	1	1	1	1	3	3	4	2
Total.....	33	28	28	22	55	56	47	43

Age.	September.		October.		November.		December.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Under 1 day.....	10	5	10	2	3	2	2	4
1 day to 1 week.....	4	14	10	7	4	3	8	7
1 week to 1 month.....	4	2	3	3	4	2	6	5
1 to 2 months.....	4	2	3	4	3	2	2	2
2 to 3 months.....	4	2	3	3	1	2	5	1
3 to 4 months.....	1	8	3	3	1	1	1	3
4 to 5 months.....	2	2	1	1	2	2	1	1
5 to 6 months.....	3	2	2	4	1	1	2	1
6 to 7 months.....	2	1	2	1	1	1	1	1
7 to 8 months.....	1	1	2	1	1	1	1	1
8 to 9 months.....	4	2	2	2	1	1	1	1
9 to 10 months.....	1	1	1	1	2	2	1	1
10 to 11 months.....	1	1	1	1	1	1	1	1
11 to 12 months.....	1	1	1	1	1	1	1	1
Total.....	36	42	39	30	17	19	28	26

TABLE 4.—*Decedents (stillbirths excluded) in the District of Columbia under 1 year of age, by race, age, and by months, during calendar year 1916—Continued.*

SUMMARY.

Age.	Deaths.			Percentage of—		
	White.	Colored.	All.	White decedents under 1 year of age.	Colored decedents under 1 year of age.	All decedents under 1 year of age.
Under 1 day.....	89	43	132	21.55	12.18	17.23
1 day to 1 week.....	74	62	136	17.92	17.56	17.75
1 week to 1 month.....	56	28	84	13.56	7.03	10.97
1 to 2 months.....	26	24	50	6.30	6.80	6.53
2 to 3 months.....	34	29	63	8.23	8.21	8.23
3 to 4 months.....	18	27	45	4.36	7.65	5.88
4 to 5 months.....	22	14	36	5.32	3.97	4.70
5 to 6 months.....	19	21	40	4.60	5.95	5.22
6 to 7 months.....	17	25	42	4.12	7.08	5.48
7 to 8 months.....	16	18	34	3.87	5.10	4.44
8 to 9 months.....	16	18	34	3.88	5.10	4.44
9 to 10 months.....	9	17	26	2.18	4.82	3.39
10 to 11 months.....	7	12	19	1.69	3.40	2.48
11 to 12 months.....	10	15	25	2.42	4.25	3.26
Total.....	413	353	766	100.00	100.00	100.00

TABLE 5.—*Number and age of decedents in the District of Columbia 70 years of age and over during the calendar year 1916.*

Age (years).	White.		Colored.		Total.	Age (years).	White.		Colored.		Total.
	Male.	Female.	Male.	Female.			Male.	Female.	Male.	Female.	
70.....	41	49	32	29	151	87.....	5	5	4	3	17
71.....	27	29	8	12	76	88.....	7	10	3	.....	20
72.....	52	35	10	12	109	89.....	1	8	.....	.....	9
73.....	43	55	3	4	105	90.....	6	5	4	2	17
74.....	46	28	10	8	92	91.....	1	6	1	.....	8
75.....	64	47	19	8	138	92.....	4	3	.....	1	8
76.....	53	41	9	8	111	93.....	2	3	.....	1	6
77.....	33	41	4	3	81	94.....	2	.....	.....	1	3
78.....	39	33	2	1	75	95.....	1	2	2	3	8
79.....	29	22	2	4	57	96.....	2	3	1	2	8
80.....	38	31	7	9	85	97.....	1	1	.....	.....	2
81.....	17	22	.....	4	43	98.....	.....	3	.....	.....	3
82.....	24	24	4	6	58	99.....	.....	.....	.....	1	1
83.....	20	15	.....	5	40	100.....	.....	.....	.....	2	2
84.....	16	16	.....	1	33	110.....	.....	.....	.....	1	1
85.....	11	17	3	2	33						
86.....	9	4	3	7	23						
						Total.....	594	558	131	140	1,423

TABLE 6.—*Number of deaths in hospitals and other public institutions in the District of Columbia during the calendar year 1916.*

Place of death.	White.	Colored.	Total.
Baby Hospital Camp.....	5	9	14
Chevy Chase Sanitarium.....	4		4
Columbia Hospital.....	31	32	63
Children's Hospital.....	56	39	95
Casualty Hospital.....	51	55	106
Camp Pleasant.....		2	2
Convent of Good Shepherd.....	1		1
Episcopal Eye, Ear, and Throat Hospital.....	8		8
Emergency Hospital.....	166	71	237
Freedmen's Hospital.....	7	292	299
Florence Crittenden Home.....	4		4
Georgetown Visitation Convent.....	4		4
Garfield Hospital.....	76	67	143
Georgetown Hospital.....	115	28	143
George Washington Hospital.....	94		94
House of Mercy.....	1		1
Home for Aged and Infirm.....	10	19	29
Interstate Old Folks Home.....		1	1
John Dickson Home.....	4		4
Little Sisters of the Poor.....	30	13	43
Louise Home.....	3		3
Methodist Home for Aged.....	1		1
National Homeopathic Hospital.....	28	15	43
National Lutheran Home.....	4		4
National Training School (boys).....	1		1
Presbyterian Home.....	1		1
Providence Hospital.....	156	26	182
Ruppert Home.....	6		6
St. Vincent's Orphan Asylum.....	1		1
St. Ann's Asylum.....	32		32
Sibley Hospital.....	123	1	124
St. Elizabeth.....	285	95	380
Tuberculosis Hospital.....	82	134	216
United States Soldiers' Home.....	84	2	86
United States Naval Hospital.....	13	1	14
Washington Home for Foundlings.....	1		1
Washington Sanitarium Mission Hospital.....	1		1
Washington Home for Incurables.....	9		9
Washington Cancer Sanitarium.....	3		3
Washington Asylum Hospital.....	69	204	273
Walter Reed General Hospital.....	44	1	45
Total.....	1,614	1,107	2,721

TABLE 7.—Deaths (stillbirths excluded) in the District of Columbia during the calendar year 1916, arranged according to the last residence of decedent.

District.	Pulmonary tuberculosis.		Pneumonia (all forms).		Bronchitis.		Pulmonary congestion.		Diphtheria.		Scarlet fever.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
1.	4	19	10	13	2	3						
2.	7	10	3	7		1						
3.	6	9	12	16	1	2		1				
4.	1	5		3								
5.	4	28	8	28		1		1				1
6.	14	12	22	13	4	1						
7.	21	10	9	3	1							
8.	18	15	23	10		2			3			
9.	7	46	13	26	2	4			1	2		
10.	15	16	11	10	3	2			2			
11.	2	26		26		3				1		
12.	5	10	4	26		2			1	1		
13.	7	4	4	2	1				2			
14.	17	11	16	9	2	1			1		1	
15.	8	9	12	6	1	3			2	1		
16.	5	6	4	5	2	1	1		1			
17.	14	4	11	5	1	2	1					
18.	13	8	12	7	1			1				
19.	6	4	6	6	2				1			
20.	3	3	4	4	1	1			1			
21.	1		1	1	1	1			1			
22.		4	1	4		2						
23.							1		1			
24.	3								2			
25.	2	7	3	8		1						
26.	20	13	28	4								
27.	3	12	4	6	1	1						
28.				3		1			1			
29.	2		1		1							
30.	1	3	2	2			1		2	1		
31.	1			1								
32.	3		5	1								
33.	6	7	7	2	2	1					1	
34.	1	12	1	20		1				1		
35.	4	16	10	8	2				1		2	
36.	5	3	11	2	3		1				1	
37.	5	1	4									
38.			3		1							
39.	2		1									
40.	5			1								
41.	8	7	4		1				1			
42.	2		1									
43.	2		6									
44.	3	2	6	1	2							
45.		4	1	2		1						
46.	1	4							1			
47.												
48.	4		1	1								
49.	1	2	10	7	1				1			
50.	9	8	9	1			1					
51.	1		1						1			
52.	1		1									
53.		2		1								
Total	275	371	305	299	39	38	5	4	26	7	5	1

TABLE 7.—Deaths (stillbirths excluded) in the District of Columbia during the fiscal year 1916, according to the last residence of decedent—Continued.

District.	Typhoid fever.		Malarial fever.		Diarrheal diseases (all).		Other diseases.		Total by districts.		
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	All.
1.....			1		2	5	112	70	131	110	241
2.....					1	3	54	75	81	75	156
3.....					17	5	120	64	156	97	253
4.....						1	10	26	11	35	46
5.....	1	2			9	12	79	177	101	217	318
6.....	2	1			1	3	199	44	242	71	313
7.....					2		104	13	137	26	163
8.....	1			1	2	1	131	30	178	59	237
9.....		2			7	21	180	197	210	208	508
10.....	1	1			8	4	152	64	192	97	289
11.....		2			1	4	11	98	14	190	174
12.....					2	13	23	52	35	104	139
13.....	1	1			2	4	49	14	65	24	89
14.....	1	1			5	4	175	59	218	85	303
15.....	3	1			3	4	142	50	171	74	245
16.....					2	2	59	28	74	42	116
17.....	1				5	2	125	40	158	53	211
18.....		1			1	4	100	31	127	55	182
19.....					2	2	24	15	41	27	68
20.....			1			1	37	36	50	45	95
21.....					2	1	9	7	11	11	22
22.....						2	1	16	2	28	30
23.....							4	2	6	2	8
24.....					1	1	10	-----	16	1	17
25.....						3	36	46	41	65	106
26.....					9	4	218	71	275	92	367
27.....	1					1	29	33	38	53	91
28.....							6	3	7	7	14
29.....							7	-----	11	-----	11
30.....						1	13	11	18	19	37
31.....	1				2		33	1	36	2	38
32.....	1				1		30	2	40	3	43
33.....	1				1	1	63	28	81	39	120
34.....		6			1	4	15	110	18	154	172
35.....	3	1			1	8	111	40	134	73	207
36.....	2	1			3	1	118	10	144	16	160
37.....							78	5	87	6	93
38.....	1				1	2	25	1	31	3	34
39.....							11	6	14	6	20
40.....					2		16	3	23	4	27
41.....	1				1		58	1	74	8	82
42.....					1		8	1	12	1	13
43.....							59	1	68	2	70
44.....	1				2		59	5	73	8	81
45.....							5	9	6	16	22
46.....							22	7	24	11	35
47.....	1						17	2	19	3	22
48.....	1				3		68	37	87	52	139
49.....		1			3	3	17	14	22	21	43
50.....	2	2			4	1	94	28	121	39	160
51.....							10	5	12	5	17
52.....							1	-----	3	-----	3
53.....							7	1	7	4	11
Total.....	25	21	2	1	111	128	3,160	1,671	3,953	2,541	6,494

TABLE 7b.—*Showing distribution of deaths (stillbirths excluded) arranged according to race, and according to streets and alleys and vital statistics districts, during the calendar year 1916.*

Statistical district.	Deaths.					
	White.		Colored.		Total.	
	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.
1.....	131	.....	106	4	237	4
2.....	81	.....	64	11	145	11
3.....	156	.....	78	19	234	19
4.....	11	.....	33	2	44	2
5.....	101	.....	230	17	331	17
6.....	242	.....	63	11	305	11
7.....	137	.....	25	1	162	1
8.....	171	7	38	21	209	28
9.....	210	.....	241	57	451	57
10.....	191	1	84	13	275	14
11.....	14	.....	139	21	153	21
12.....	35	.....	98	6	133	6
13.....	65	.....	24	.....	89	.....
14.....	218	.....	71	14	289	14
15.....	171	.....	60	14	231	14
16.....	74	.....	39	3	113	3
17.....	158	.....	50	3	208	3
18.....	127	.....	50	5	177	5
19.....	41	.....	27	.....	68	.....
20.....	50	.....	42	3	92	3
21.....	11	.....	11	.....	22	.....
22.....	2	.....	28	.....	30	.....
23.....	6	.....	2	.....	8	.....
24.....	16	.....	1	.....	17	.....
25.....	40	1	64	1	104	2
26.....	275	.....	92	.....	367	.....
27.....	38	.....	53	.....	91	.....
28.....	7	.....	7	.....	14	.....
29.....	11	.....	.....	.....	11	.....
30.....	18	.....	19	.....	37	.....
31.....	36	.....	2	.....	38	.....
32.....	40	.....	3	.....	43	.....
33.....	81	.....	39	.....	120	.....
34.....	17	1	148	6	165	7
35.....	134	.....	73	.....	207	.....
36.....	144	.....	16	.....	160	.....
37.....	87	.....	6	.....	93	.....
38.....	31	.....	3	.....	34	.....
39.....	14	.....	6	.....	20	.....
40.....	23	.....	4	.....	27	.....
41.....	74	.....	8	.....	82	.....
42.....	12	.....	1	.....	13	.....
43.....	68	.....	2	.....	70	.....
44.....	73	.....	8	.....	81	.....
45.....	6	.....	16	.....	22	.....
46.....	24	.....	11	.....	35	.....
47.....	19	.....	3	.....	22	.....
48.....	87	.....	47	5	134	5
49.....	19	3	21	.....	40	3
50.....	121	.....	38	1	159	1
51.....	12	.....	5	.....	17	.....
52.....	3	.....	.....	.....	3	.....
53.....	7	.....	4	.....	11	.....
Total.....	3,940	13	2,303	238	6,243	251

TABLE 7c.—Relative prevalence of certain diseases among the street and alley populations in the District of Columbia since the calendar year 1905.

WHITE.

Year.	Population.		Diphtheria.				Scarlet fever.				Typhoid fever.			
			Deaths.		Death rates.		Deaths.		Death rates.		Deaths.		Death rates.	
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
1905.....	1,739	225,689	2	29	115.0	12.8	7	.....	3.1	.....	1	90	57.5	39.8
1906.....	1,475	231,928	.....	23	.....	9.9	2	.....	.9	.....	1	76	67.8	32.8
1907.....	1,618	240,302	.....	15	.....	6.2	2	.....	3.3	.....	.....	88	.....	36.6
1908.....	1,608	244,253	.....	30	.....	12.3	21	.....	8.5	.....	.....	67	.....	24.9
1909.....	1,455	247,206	.....	26	.....	10.5	8	.....	3.2	.....	.....	49	.....	19.8
1910 ¹	1,302	250,158	.....	16	.....	6.4	4	.....	1.6	.....	.....	46	.....	18.4
1911 ¹	1,149	253,111	.....	15	.....	5.9	4	.....	1.6	.....	.....	49	.....	19.3
1912.....	994	254,159	.....	22	.....	8.7	13	.....	5.1	.....	1	34	100.6	13.4
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	888	258,052	1	21	103.6	8.1	7	.....	2.7	.....	.....	20	.....	7.8
1915.....	.....	.....	.....	26	.....	.....	5	.....	.....	.....	.....	25	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

COLORED.

1905.....	16,659	79,036	2	13	12.04	16.4	2	2	12.0	2.5	7	44	42.0	55.7
1906.....	14,864	81,324	1	6	6.7	7.4	.....	.....	.....	.....	3	34	20.2	41.8
1907.....	14,217	83,266	1	6	7.0	7.2	.....	.....	1.2	.....	3	33	21.0	39.6
1908.....	13,682	83,460	3	10	21.9	12.0	.....	5	6.0	.....	4	43	29.2	51.5
1909.....	13,086	84,567	.....	3	.....	3.5	.....	.....	3.5	.....	3	29	22.9	34.3
1910 ¹	12,490	85,675	.....	3	.....	3.5	.....	.....	.....	.....	3	25	24.0	29.2
1911 ¹	11,894	86,782	.....	.....	.....	.....	.....	.....	.....	.....	3	26	25.2	29.9
1912.....	10,328	87,816	.....	4	.....	4.5	.....	1	1.1	.....	1	21	9.7	25.9
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	8,638	90,171	.....	7	.....	7.8	.....	1	1.1	.....	.....	22	.....	24.4
1915.....	.....	.....	.....	6	.....	.....	.....	1	.....	.....	1	20	.....	.....
1916.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

WHITE.

Year.	Population.		Whooping cough.				Diarrhea (under 2 years).			
			Deaths.		Death rates.		Deaths.		Death rates.	
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
1905.....	1,739	225,689	.....	27	.....	11.9	2	124	115.0	54.9
1906.....	1,475	231,928	.....	14	.....	6.0	6	121	406.8	77.6
1907.....	1,618	240,302	1	9	67.8	3.7	4	154	247.2	64.1
1908.....	1,608	244,253	1	13	62.2	5.3	1	90	62.2	36.8
1909.....	1,455	247,206	.....	9	.....	3.6	.....	120	.....	48.5
1910 ¹	1,302	250,158	.....	15	.....	6.0	3	121	230.4	48.4
1911 ¹	1,149	253,111	1	19	87.0	7.5	2	75	174.0	29.6
1912.....	994	254,159	1	2	100.6	.8	.....	85	.....	33.4
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	888	258,052	1	8	103.0	3.1	.....	71	.....	27.5
1915.....	.....	.....	1	16	.....	.....	.....	74	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

COLORED.

1905.....	16,659	79,036	18	28	108.0	35.4	57	154	342.2	194.8
1906.....	14,864	81,324	1	17	6.7	20.9	40	158	209.1	218.9
1907.....	14,217	83,266	6	23	42.2	27.6	44	131	309.4	137.3
1908.....	13,682	83,460	3	13	21.9	15.6	44	115	321.6	137.8
1909.....	13,086	84,567	6	20	45.9	23.6	44	136	336.2	160.8
1910 ¹	12,490	85,675	2	11	16.0	12.8	19	114	152.1	133.1
1911 ¹	11,894	86,782	7	37	58.8	46.2	15	95	125.1	109.4
1912.....	10,328	87,816	2	12	19.4	13.7	12	111	116.2	126.4
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	8,638	90,171	.....	10	.....	11.1	10	86	115.8	95.4
1915.....	.....	.....	3	21	.....	.....	5	96	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Annual average for 5-year period.

TABLE 7C.—*Relative prevalence of certain diseases among the street and alley populations in the District of Columbia since the calendar year 1905—Continued.*

Year.	Population.		Pneumonia.				Bronchitis.			
			Deaths.		Death rates.		Deaths.		Death rates.	
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
1905.....	1,739	225,689	1	225	57.5	99.7	.....	49	.....	21.7
1906.....	1,475	231,928	4	227	271.2	87.9	.....	59	.....	25.4
1907.....	1,618	240,302	2	228	123.6	94.9	1	56	61.8	23.3
1908.....	1,608	244,253	5	288	310.9	117.9	1	52	62.2	21.3
1909 ¹	1,455	247,206	4	278	274.9	112.5	1	82	68.7	33.2
1910.....	1,302	250,158	.....	278	.....	111.1	.....	49	.....	19.6
1911.....	1,149	253,111	1	250	87.0	98.8	.....	50	.....	19.8
1912.....	994	254,159	2	205	201.2	80.6	.....	58	.....	22.8
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	888	258,052	.....	333	.....	129.0	.....	52	.....	20.2
1915.....	.....	.....	1	304	.....	.....	.....	39	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

COLORED.

1905.....	16,659	79,036	56	248	336.1	313.7	16	75	96.0	94.9
1906.....	14,864	81,324	63	245	423.8	301.3	16	72	107.6	88.5
1907.....	14,217	83,266	60	215	422.0	258.2	12	55	84.4	66.1
1908.....	13,682	83,460	60	245	432.8	290.3	11	47	79.3	56.3
1909 ¹	13,086	84,567	70	255	534.9	301.5	12	43	91.7	50.8
1910.....	12,490	85,675	47	263	376.3	206.9	3	35	24.0	40.9
1911.....	11,894	86,782	33	241	277.5	277.7	8	37	67.2	42.6
1912.....	10,328	87,816	45	232	435.7	264.2	5	36	48.4	40.9
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	8,638	90,171	32	306	370.4	339.4	4	31	46.3	34.4
1915.....	.....	.....	39	260	.....	.....	1	37	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

WHITE.

Year.	Population.		Pulmonary congestion.				Pulmonary tuberculosis.			
			Deaths.		Death rates.		Deaths.		Death rates.	
	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.	Alleys.	Streets.
1905.....	1,739	225,689	.....	17	.....	7.5	1	352	57.5	115.9
1906.....	1,475	231,928	.....	37	.....	15.9	3	317	203.4	136.7
1907.....	1,618	240,302	.....	26	.....	10.8	1	300	61.8	124.8
1908.....	1,608	244,253	.....	30	.....	12.3	3	296	186.5	121.2
1909 ¹	1,455	247,206	.....	24	.....	9.7	3	317	206.2	128.2
1910.....	1,302	250,158	.....	19	.....	7.6	1	326	76.8	130.3
1911.....	1,149	253,111	.....	22	.....	8.7	2	303	174.0	119.7
1912.....	994	254,159	.....	9	.....	3.5	2	314	201.2	123.5
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	888	258,052	.....	.....	.....	.....	.....	206	.....	114.7
1915.....	.....	.....	.....	5	.....	.....	.....	275	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

COLORED.

1905.....	16,659	79,036	6	17	39.0	21.5	94	379	594.3	479.4
1906.....	14,864	81,324	1	15	6.7	18.4	85	343	571.9	421.8
1907.....	14,217	83,266	2	15	14.1	18.0	91	319	640.1	383.1
1908.....	13,682	83,460	2	8	14.6	9.6	85	362	621.3	433.7
1909 ¹	13,086	84,567	3	3	22.9	3.5	90	353	687.8	417.4
1910.....	12,490	85,675	3	8	24.0	9.3	53	344	424.3	401.5
1911.....	11,894	86,782	.....	9	.....	10.4	79	341	664.2	392.9
1912.....	10,328	87,816	17	12	164.6	136.6	52	309	503.5	351.9
1913.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1914.....	8,638	90,171	.....	.....	.....	.....	56	346	648.3	383.7
1915.....	.....	.....	.....	4	.....	.....	37	334	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

¹ Annual average for 5-year period.

TABLE 8.—*Places of interment or other disposition of remains in the District of Columbia during the calendar year 1916.*

Places of interment.	Persons dying in District of Columbia.			Persons brought into District of Columbia.		
	White.	Colored.	Total.	White.	Colored.	Total.
Above Sholom.....	16		16	2		2
Adas Israel.....	14		14			
Arlington National.....	307	48	355	25	4	29
Anatomical Board.....	9	88	97			
Congressional.....	519		519	58		58
Elesavegrad.....	4		4			
Glenwood.....	386		386	83		83
Georgetown College.....	1		1			
Georgetown Convent.....	4		4			
Holy Rood.....	89	14	103	8	2	10
Harmony.....		466	466		54	54
Lee's Crematorium.....	39		39	14		14
Mount Olivet.....	582	183	765	69	14	83
Municipal Crematorium.....	81	178	259	13		13
Mount Zion.....	2	200	202		14	14
Methodist.....	25		25	6		6
Moore's.....		131	131		4	4
Macedonia.....		3	3			
National Capital Hebrew.....	22		22			
Oak Hill.....	120		120	30		30
Prospect Hill.....	137		137	16		16
Potter's Field.....	3	2	5			
Payne's.....		390	390		21	21
Rock Creek.....	357		357	96		96
Sent out of city.....	938	404	1,342	39	9	48
St. Elizabeth.....	72	35	107			
St. Mary's.....	89		89	8		8
St. Agnes Chapel (National Cathedral).....				1		1
Talmud Torah.....	11		11			
United States Soldiers' Home.....	81	2	83			
Union Baptist.....		71	71		4	4
Veitch.....				1		1
Washington Hebrew.....	25		25	4		4
Woodlawn.....	20	326	346	1	21	22
	3,953	2,541	6,494	474	147	621

TABLE 9.—*Estimated population, deaths (stillbirths excluded), and death rate in the District of Columbia, by race and calendar years, from 1901 to 1916.*

Year.	Population.			Deaths.			Death rates.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1901-1905 ¹	217,606	93,719	311,325	3,395	2,647	6,042	15.60	28.20	19.41
1906-1910 ¹	240,244	96,696	336,940	3,626	2,678	6,304	15.09	27.69	18.71
1911-1915 ¹	255,162	98,281	353,443	3,665	2,523	6,188	14.35	25.63	17.49
1911.....	251,409	98,139	349,568	3,739	2,564	6,303	14.87	26.12	18.03
1912.....	254,260	98,676	352,936	3,606	2,653	6,259	14.18	26.89	17.73
1913.....	255,153	98,144	353,297	3,568	2,438	6,006	13.98	24.84	16.99
1914.....	256,049	97,615	353,664	3,493	2,373	5,866	13.64	24.31	16.59
1915.....	258,940	98,809	357,749	3,918	2,587	6,505	15.13	26.18	18.18
1916.....	260,854	99,143	359,997	3,953	2,541	6,494	15.15	25.63	18.04

¹ Annual average for 5-year period.

TABLE 10.—Deaths (stillbirths excluded) in the District of Columbia of children under 1 year of age, by sex and color, and by months and years.

Calendar year.	January.						February.						March.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	21	16	37	30	22	52	21	18	39	28	21	49	26	16	42	22	18	40
1906-1910 ¹	19	15	34	22	19	41	21	15	36	21	18	39	25	19	44	30	21	51
1911-1915 ¹	16	13	29	17	15	32	18	13	31	19	15	34	21	15	36	18	14	32
1911.....	18	17	35	21	16	37	14	9	23	22	16	38	15	18	33	12	12	24
1912.....	18	20	38	20	17	37	22	12	34	11	17	28	30	17	47	12	17	49
1913.....	20	13	33	14	22	36	21	14	35	20	16	36	19	11	30	21	15	36
1914.....	11	11	22	15	10	25	15	14	29	25	18	43	21	20	41	13	12	25
1915.....	12	7	19	16	9	25	17	17	34	17	8	25	20	8	28	32	16	48
1916.....	20	11	31	15	6	21	20	16	36	13	13	26	18	15	33	10	15	25

Calendar year.	April.						May.						June.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	17	14	31	23	18	41	18	13	21	16	19	35	30	19	49	44	30	74
1906-1910 ¹	20	15	35	19	19	38	16	13	29	19	15	34	24	20	45	39	32	71
1911-1915 ¹	19	13	32	16	15	31	15	11	26	19	11	30	15	10	25	21	13	34
1911.....	22	16	38	15	15	30	23	10	33	17	12	29	14	13	27	18	7	25
1912.....	25	13	38	25	22	47	12	9	21	15	15	30	20	6	26	22	18	40
1913.....	16	14	30	14	12	26	14	8	22	14	9	23	18	17	35	35	19	54
1914.....	16	7	23	11	15	26	9	9	18	20	11	31	11	7	18	17	12	29
1915.....	17	15	32	15	12	27	17	17	34	17	9	26	11	9	20	16	10	26
1916.....	18	12	30	7	8	15	21	12	33	18	10	28	15	13	28	14	8	22

Calendar year.	July.						August.						September.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	52	40	92	56	55	111	33	22	55	39	35	74	22	19	41	25	23	48
1906-1910 ¹	47	33	80	46	45	91	36	29	65	32	29	61	27	19	46	24	21	45
1911-1915 ¹	31	22	53	26	26	52	25	18	43	24	20	44	23	17	40	21	18	39
1911.....	50	39	89	34	44	78	40	27	67	27	30	57	17	22	39	24	15	39
1912.....	33	18	51	32	35	67	22	18	40	32	22	54	27	11	38	18	19	37
1913.....	33	24	57	26	24	50	18	13	31	22	12	34	19	16	35	21	21	42
1914.....	21	14	35	22	16	38	23	13	36	22	18	40	20	19	39	20	11	31
1915.....	20	14	34	18	12	30	24	18	42	19	18	37	31	16	47	21	24	45
1916.....	30	25	55	35	21	56	30	17	47	17	26	43	18	18	36	23	19	42

Calendar year.	October.						November.						December.					
	White.			Colored.			White.			Colored.			White.			Colored.		
	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.	M.	F.	T.
1901-1905 ¹	22	17	39	27	20	47	19	14	33	18	15	33	15	12	27	24	22	46
1906-1910 ¹	21	17	38	25	18	43	20	14	34	20	20	40	21	13	34	22	16	38
1911-1915 ¹	18	15	33	18	14	32	18	13	31	17	16	33	20	12	32	15	14	29
1911.....	18	19	37	26	18	44	22	10	32	17	20	37	23	14	37	13	16	29
1912.....	19	11	30	21	20	41	21	14	35	17	13	30	16	13	29	20	12	32
1913.....	15	13	28	15	13	28	13	17	30	14	20	34	22	12	34	10	13	29
1914.....	9	16	25	16	12	28	18	11	29	20	9	29	17	11	28	11	16	27
1915.....	28	18	46	14	17	31	15	13	28	19	16	35	24	10	34	15	10	25
1916.....	22	17	39	18	12	30	7	10	17	6	13	19	18	10	28	18	8	26

¹ Annual average for 5-year period.

TABLE 10.—Deaths (stillbirths excluded) in the District of Columbia of children under 1 year of age, by sex and color, and by months and years—Continued.

SUMMARY.

Calendar year.	White.		Colored.		Grand total.		
	Male.	Female.	Male.	Female.	White.	Colored.	Total.
1901-1905 ¹	297	218	353	297	515	650	1,165
1906-1910 ¹	297	225	319	273	522	592	1,114
1911-1915 ¹	239	172	231	191	411	422	833
1911.....	276	214	246	221	490	467	957
1912.....	265	162	245	227	427	272	899
1913.....	228	172	232	196	400	428	828
1914.....	191	152	212	160	343	372	715
1915.....	236	162	219	161	398	380	778
1916.....	237	176	194	159	413	353	766

¹ Annual average for 5-year period.

TABLE 11.—Deaths (still births excluded) in the District of Columbia, by race, under 5 years of age.

Calendar year.	White.	Colored.	Total.
1901-1905 ¹	687	896	1,583
1906-1910 ¹	685	792	1,477
1911-1915 ¹	534	578	1,112
1911.....	643	659	1,302
1912.....	536	644	1,180
1913.....	550	580	1,130
1914.....	438	492	930
1915.....	506	513	1,019
1916.....	534	496	1,030

¹ Annual average for 5-year period.

TABLE 12.—Births (stillbirths excluded), decedents under 1 year, and death rates based on reported births, for the years during and since the calendar year 1901.

Years	White.			Colored.			All.		
	Births	Deaths under 1 year.	Deaths per 1,000 reported births.	Births.	Deaths under 1 year.	Deaths per 1,000 reported births.	Births.	Deaths under 1 year.	Deaths per 1,000 reported births.
1901-1905 ¹	3,429	519	151	1,980	650	328	5,409	1,169	216
1906-1910 ¹	4,132	522	113	2,268	592	261	6,900	1,114	161
1911-1915 ¹	4,794	411	86	2,234	424	189	7,028	835	119
1911.....	4,772	490	103	2,240	467	207	7,032	957	136
1912.....	4,734	427	90	2,273	472	208	7,007	899	128
1913.....	4,667	400	86	2,236	428	191	6,903	828	120
1914.....	4,925	343	70	2,205	372	169	7,130	715	100
1915.....	4,872	398	82	2,195	380	173	7,067	778	110
1916.....	5,042	413	82	2,216	353	159	7,258	766	106

¹ Annual average for 5-year period.

TABLE 12a.—Deaths of infants in the District of Columbia under 1 year of age, stillbirths and live births, during the calendar year 1916, arranged by race and according to statistical districts.

District.	Registered live births.			Deaths under 1 year.			Infant death rate based on registered births.			Stillbirths.			Percentage of stillbirths to total live and stillbirths of the same class.		
	White.	Colored.	All.	White.	Colored.	All.	White.	Colored.	All.	White.	Colored.	All.	White.	Colored.	All.
1.....	150	95	245	6	13	19	40.0	136.8	77.6	4	5	10	2.6	5.0	3.8
2.....	124	131	255	13	27	40	104.8	106.9	105.9	5	10	16	3.9	7.1	5.9
3.....	141	70	211	43	20	63	304.9	285.7	298.6	4	9	14	2.8	11.4	6.2
4.....	10	17	27	1	4	5	100.0	235.3	185.2	3	2	5	3.1	9.7	6.9
5.....	95	214	309	43	30	73	136.8	140.2	139.2	3	23	26	3.1	8.1	3.9
6.....	163	57	220	13	10	23	79.8	175.4	104.5	3	5	8	2.4	8.1	3.0
7.....	82	15	97	5	.....	5	61.0	.....	51.5	2	.....	2	3.7	.....	4.7
8.....	285	39	324	19	6	25	60.6	153.8	77.2	11	2	13	3.2	4.9	4.7
9.....	312	261	573	28	59	87	89.7	226.1	151.8	17	32	49	4.3	10.9	8.8
10.....	199	68	267	22	6	28	110.6	88.2	104.9	9	7	16	4.3	9.3	6.3
11.....	41	131	172	3	19	22	73.2	145.0	127.9	2	8	10	4.7	5.8	6.0
12.....	55	96	151	5	20	25	90.9	208.3	165.6	.....	.....	.....	.....	.....	7.4
13.....	117	30	147	12	4	16	102.6	133.3	108.8	3	11	14	2.5	10.3	2.0
14.....	281	57	338	22	12	34	78.3	210.5	100.6	11	4	15	3.8	6.6	4.2
15.....	199	44	243	18	8	26	90.5	181.8	107.0	5	3	8	2.5	6.4	3.2
16.....	134	62	196	12	9	21	89.6	145.2	107.1	4	4	8	2.9	6.1	11.3
17.....	312	50	362	26	12	38	83.3	240.0	105.0	10	5	16	3.1	9.1	4.2
18.....	202	39	241	18	11	29	89.1	282.1	120.3	4	3	7	1.9	7.1	3.2
19.....	111	5	116	11	4	15	99.1	178.6	115.1	2	4	6	1.8	12.5	4.1
20.....	75	51	126	4	4	8	53.3	78.4	63.5	3	5	8	3.8	8.9	6.0
21.....	25	14	39	5	1	6	200.0	71.4	153.8	1	.....	1	3.8	.....	2.5
22.....	6	57	63	.....	5	5	.....	87.7	79.4	.....	2	2	.....	3.4	3.1
23.....	11	3	14	3	.....	3	272.7	.....	214.3	.....	.....	.....	.....	.....	.....
24.....	37	6	43	6	1	7	162.2	166.7	162.8	2	1	3	5.1	14.3	6.5
25.....	90	49	139	5	16	21	55.6	326.5	151.1	7	6	14	7.2	10.9	8.8
26.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
27.....	61	37	98	3	2	5	49.2	54.1	51.0	4	1	5	6.2	2.6	4.9
28.....	9	10	19	.....	.....	.....	.....	.....	.....	1	2	3	10.0	16.6	17.4
29.....	26	.....	26	1	.....	1	38.5	.....	38.5	.....	.....	.....	.....	.....	.....
30.....	49	19	68	1	1	2	20.4	52.6	29.4	1	.....	2	2.0	.....	2.9
31.....	104	9	113	7	1	8	67.3	111.1	70.8	4	1	5	3.7	10.0	4.2
32.....	89	6	95	5	.....	5	56.2	.....	52.6	.....	.....	2	.....	14.3	2.1
33.....	90	33	123	3	5	8	33.3	151.5	65.0	4	4	8	4.3	10.8	6.3
34.....	26	120	146	7	17	24	269.2	111.7	164.4	1	11	12	3.7	8.4	8.8
35.....	180	106	286	6	15	21	33.3	141.5	73.4	8	7	17	4.3	6.2	5.6

114 found in pumping station.

TABLE 12a.—Deaths of infants in the District of Columbia under 1 year of age, stillbirths and live births, during the calendar year 1916, arranged by race and according to statistical districts—Continued.

District.	Registered live births.			Deaths under 1 year.			Infant death rate based on registered births.			Stillbirths.				Percentage of stillbirths to total live and stillbirths of the same class.		
	White.	Colored.	All.	White.	Colored.	All.	White.	Colored.	All.	White.	Colored.	Un- known.	All.	White.	Colored.	All.
36.....	270	40	310	11	3	14	40.7	75.0	45.2	11	4	2	17	3.9	9.1	6.0
37.....	6	7	13	1	1	2	168.7	.....	76.9	2	.....	.....	2	.....	.....	.....
38.....	98	.....	98	5	2	7	51.0	.....	71.4	2	.....	.....	2	2.0	.....	2.0
39.....	25	.....	31	1	.....	1	80.0	.....	32.3	.....	.....	.....	.....	.....	.....	.....
40.....	37	12	49	2	1	3	54.1	83.3	61.2	.....	1	1	2	.....	7.7	3.9
41.....	74	2	76	3	.....	3	40.5	.....	39.5	1	.....	.....	1	1.3	.....	1.3
42.....	18	3	21	2	1	3	111.1	333.3	142.8	.....	.....	.....	.....	.....	.....	.....
43.....	78	2	80	2	.....	2	25.6	.....	25.0	1	1	.....	2	1.3	33.3	2.4
44.....	89	11	100	1	2	3	11.2	.....	10.0	2	1	.....	3	2.2	8.3	2.9
45.....	21	17	38	.....	2	2	.....	117.6	48.8	3	1	.....	5	11.1	10.5	10.9
46.....	57	11	68	3	.....	3	52.6	.....	44.1	1	1	.....	2	1.7	8.3	2.9
47.....	27	.....	27	.....	2	2	.....	.....	74.1	2	.....	.....	2	6.9	.....	6.9
48.....	109	23	132	6	4	10	60.8	173.9	91.7	6	2	.....	8	6.5	8.0	6.8
49.....	31	9	40	.....	4	9	161.3	444.4	225.0	1	1	.....	2	3.1	10.0	4.8
50.....	183	42	225	20	3	23	108.1	71.4	101.3	5	3	1	9	2.2	6.7	3.8
51.....	33	1	34	4	.....	4	121.2	.....	117.6	1	.....	.....	1	2.9	.....	2.9
52.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
53.....	13	1	14	1	1	2	75.9	1,000.0	142.9	.....	.....	.....	.....	.....	.....	.....
Total.....	5,012	2,216	7,228	413	353	766	81.9	159.3	105.5	171	192	54	417	3.3	8.0	5.4

TABLE 12b.—Deaths (stillbirths excluded) of infants under 1 day, and from 1 day to 1 week old, in the District of Columbia, with corresponding death rates based on registered births, together with percentages of deaths at these age periods to total deaths under 1 year, during the calendar years 1901 to 1916, inclusive.

Years.	Registered births.	First day.		1 day to 1 week.	
		Deaths.	Death rates.	Deaths.	Death rates.
1901-1905 ¹	5,408.8	124.6	* 23.03	158.2	29.25
1906-1910 ¹	6,899.8	131.0	18.98	157.6	22.84
1911-1915 ¹	7,027.8	131.6	18.73	132.0	18.78
1911.....	7,032.0	151.0	21.47	130.0	18.49
1912.....	7,007.0	123.0	17.55	141.0	20.12
1913.....	6,903.0	142.0	20.57	118.0	17.09
1914.....	7,130.0	112.0	15.93	143.0	20.06
1915.....	7,067.0	130.0	18.39	128.0	18.11
1916.....	7,258.6	132.0	18.19	136.0	18.74

¹ Annual average for 5-year period.

* This death rate in 1901 was 40.18, from some cause not now apparent. Other death rates in this quinquennium were 19.87, 25.18, 17.85, and 17.15.

TABLE 13.—Deaths (stillbirths excluded) and death rates in the District of Columbia, by race and by months, from 1901 to 1916, inclusive.

Calendar year.	January.					February.					March.				
	White.		Colored.		rate total population.	White.		Colored.		rate total population.	White.		Colored.		rate total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.			
1901-1905 . . .	323	148	251	268	184	307	141	228	243	171	332	152	226	241	179
1906-1910 . . .	338	140	237	245	170	325	135	224	231	163	343	142	257	264	178
1911-1915 . . .	344	135	224	228	161	340	133	217	220	157	374	146	240	244	174
1911	355	141	230	234	167	323	128	212	215	153	370	147	215	219	167
1912	365	144	229	232	168	356	140	211	214	160	358	141	248	251	171
1913	311	122	226	230	152	345	135	222	226	160	340	133	216	220	157
1914	353	138	208	213	159	310	121	219	224	150	368	144	245	251	173
1915	345	129	228	231	157	367	142	219	222	164	432	167	276	279	198
1916	399	153	246	248	179	353	135	208	209	156	418	160	234	236	181

Calendar year.	April.					May.					June.				
	White.		Colored.		rate total population.	White.		Colored.		rate total population.	White.		Colored.		rate total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.			
1901-1905 . . .	287	132	217	231	162	251	115	201	214	145	253	116	231	246	155
1906-1910 . . .	314	131	228	235	161	282	117	206	213	145	280	116	223	230	149
1911-1915 . . .	327	128	227	231	156	289	113	202	205	139	261	102	193	196	128
1911	330	131	221	225	158	301	119	205	208	145	261	103	176	179	125
1912	324	127	231	234	157	257	101	232	235	138	254	100	192	195	126
1913	321	126	209	213	150	306	120	190	203	143	287	112	210	214	140
1914	296	116	233	239	150	297	116	179	183	135	247	96	182	186	121
1915	304	140	239	242	168	283	109	195	197	134	254	98	206	208	129
1916	333	135	226	228	161	310	119	197	199	141	271	104	173	174	123

¹ Annual average for 5-year period.

TABLE 13.—Deaths (stillbirths excluded) and death rates in the District of Columbia, by race and by months, from 1901 to 1916, inclusive—Continued.

Calendar year.	July.					August.					September.				
	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	
1901-1905 ¹ ...	314	144	282	300	191	253	116	227	242	154	237	109	186	198	136
1906-1910 ¹ ...	322	134	268	277	175	267	111	216	223	143	264	110	194	201	136
1911-1915 ¹ ...	299	117	221	224	147	258	101	205	208	131	261	102	187	190	127
1911.....	366	146	252	257	177	265	105	210	214	137	255	101	190	193	127
1912.....	270	106	254	257	148	284	112	233	236	146	235	92	185	187	118
1913.....	303	119	218	222	147	245	96	177	180	119	262	103	178	181	125
1914.....	260	102	191	196	128	239	93	190	195	121	258	101	186	191	126
1915.....	300	116	189	191	137	257	99	215	218	132	294	114	198	200	138
1916.....	298	114	248	250	152	265	102	223	225	136	282	108	217	219	139

Calendar year.	October.					November.					December.				
	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.	White.		Colored.		rate per 100,000 total population.
	Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.		Deaths.	Monthly death rate per 100,000.	Deaths.	Monthly death rate per 100,000.	
1901-1905 ¹ ...	270	124	198	211	150	271	125	185	197	146	297	136	217	231	165
1906-1910 ¹ ...	278	116	205	212	143	280	117	196	203	141	334	139	224	232	166
1911-1915 ¹ ...	282	110	207	210	138	300	118	201	204	142	330	129	200	202	150
1911.....	301	119	237	241	154	294	117	211	215	144	318	126	205	209	150
1912.....	294	116	229	232	148	278	109	202	205	136	331	130	207	210	152
1913.....	260	102	189	192	127	287	112	211	215	141	301	118	183	187	137
1914.....	246	96	179	183	120	306	120	183	187	138	313	122	178	182	139
1915.....	308	119	200	202	142	337	130	196	198	149	387	149	226	239	171
1916.....	303	116	182	183	135	341	131	187	189	147	360	134	200	203	156

TABLE 14.—Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below.

Year.	1 Aneurism.						2 Angina pectoris.						3 Apoplexy.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	4	3	7	1.8	3.2	2.2	18	4	22	8.3	4.3	7.1	177	91	268	81.3	97.1	86.8
1906-1910 ¹	6	7	13	2.5	7.2	3.8	15	4	19	6.2	4.1	5.6	216	111	327	90.0	114.8	97.8
1911-1915 ¹	7	8	15	2.7	8.0	4.2	20	5	25	7.8	5.1	7.1	273	140	413	106.9	142.2	116.7
1911.....	8	4	12	3.2	4.1	3.4	21	2	23	8.3	2.0	6.5	261	143	404	103.8	145.6	115.5
1912.....	8	9	17	3.1	9.1	4.8	19	8	27	7.5	8.1	7.6	265	134	399	104.2	135.8	113.1
1913.....	2	12	14	.8	12.2	4.0	15	5	20	5.9	5.1	5.6	251	134	385	98.3	136.5	108.9
1914.....	7	6	13	2.7	6.1	3.7	19	4	23	7.4	4.1	6.5	283	136	419	110.5	139.3	118.5
1915.....	9	9	18	3.5	9.1	5.0	25	5	30	9.6	5.1	8.4	306	151	457	118.1	152.8	127.7
1916.....	4	23	27	1.5	23.2	7.5	22	8	30	8.4	8.1	8.3	304	159	463	116.5	160.4	128.7

¹ Annual average for 5-year period.

TABLE 14.—*Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.*

Year.	4 Arteriosclerosis.						5 Bright's disease.						6 Cirrhosis of liver.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	29	6	35	13.3	6.4	11.2	233	127	360	107.1	135.5	115.6	27	7	34	12.4	7.5	10.9
1906-1910 ¹	71	13	84	29.5	13.4	24.9	283	159	442	117.8	164.5	131.2	33	10	43	13.7	10.3	12.8
1911-1915 ¹	98	22	120	38.4	22.3	33.9	347	197	544	135.8	200.1	153.7	34	8	42	13.3	8.0	11.9
1911.....	85	19	104	33.8	19.3	29.7	337	188	525	134.0	191.5	150.2	40	4	44	15.9	4.1	12.6
1912.....	82	23	105	32.2	23.3	29.7	322	182	504	126.5	184.5	142.8	33	6	39	13.0	6.1	11.0
1913.....	86	8	94	33.7	8.2	26.6	321	168	489	125.8	171.2	138.4	27	10	37	10.6	10.2	10.5
1914.....	116	27	143	45.3	27.7	40.4	363	225	588	141.7	230.5	166.2	30	11	41	11.7	11.3	11.6
1915.....	122	32	154	47.1	32.4	43.1	392	221	613	151.4	223.7	171.3	43	8	51	16.6	8.1	14.2
1916.....	153	26	179	58.6	26.2	49.7	381	207	588	146.1	208.8	163.3	28	6	34	10.7	6.1	9.4

Year.	7 Diabetes.						8 Diarrhea and enteritis (under 2 years).						9 Diarrhea and enteritis (2 years and over).					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	27	4	31	12.4	4.3	9.9	126	197	323	57.9	210.2	103.8	56	26	82	25.7	27.7	26.3
1906-1910 ¹	37	4	41	15.4	4.1	12.2	128	177	305	53.3	183.1	90.5	50	22	72	20.8	22.7	21.4
1911-1915 ¹	50	8	58	19.5	8.0	16.3	81	111	192	31.7	112.7	54.2	43	20	63	16.8	20.3	17.8
1911.....	46	4	50	18.3	4.1	14.3	124	133	257	49.3	135.5	73.5	50	20	70	19.9	20.4	20.0
1912.....	40	5	45	15.7	5.1	12.8	77	110	187	30.3	111.5	53.0	44	19	63	17.3	19.3	17.8
1913.....	46	13	59	18.0	13.3	16.7	85	123	208	33.3	125.4	58.9	45	23	68	17.6	23.4	19.2
1914.....	58	6	64	22.6	6.1	18.1	48	94	142	18.7	96.3	40.1	37	20	57	14.5	20.5	16.1
1915.....	61	11	72	23.6	11.1	20.1	71	96	167	27.4	97.1	46.7	38	20	58	14.7	20.2	16.2
1916.....	56	12	68	21.4	12.1	18.8	74	101	175	28.3	101.9	48.6	37	27	64	14.2	27.2	17.8

Year.	10 Diseases of the heart.						11 Dysentery.						12 Epilepsy.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	277	216	493	127.3	230.5	158.4	13	10	23	6.0	10.7	7.4	14	10	24	6.4	10.7	7.7
1906-1910 ¹	332	236	568	138.3	244.1	168.6	7	9	16	2.9	9.3	4.7	13	9	22	5.4	9.3	6.5
1911-1915 ¹	461	277	738	180.5	281.3	208.5	4	3	7	1.6	3.0	2.0	10	11	21	3.9	11.1	5.9
1911.....	393	266	659	156.3	271.0	188.5	5	6	11	1.9	6.1	3.1	6	13	19	2.4	13.2	5.4
1912.....	474	312	786	186.4	316.2	222.7	5	4	9	2.0	4.1	2.5	10	13	23	3.9	13.1	6.5
1913.....	459	277	736	179.9	282.3	208.2	3	3	6	1.2	3.1	1.7	17	13	30	6.7	13.3	8.5
1914.....	430	227	657	167.9	232.6	185.8	4	1	5	1.6	1.0	1.4	10	10	20	3.9	10.3	5.6
1915.....	552	301	853	213.1	304.6	238.4	5	2	7	1.9	2.0	2.0	6	9	15	2.3	9.1	4.2
1916.....	488	228	716	187.1	230.0	198.8	3	3	6	1.1	3.0	1.7	12	6	18	4.6	6.1	5.0

¹ Annual average for 5-year period.

TABLE 14.—*Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.*

Year.	13 Gastritis.						14 Grippe.						15 Insanity.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	44	24	68	20.2	25.6	21.8	51	38	89	23.4	40.5	28.6	27	8	35	12.4	8.5	11.2
1906-1910 ¹	41	32	73	17.1	33.1	21.7	52	44	96	21.6	45.5	28.5	25	11	36	10.4	11.4	10.7
1911-1915 ¹	25	29	54	9.8	29.5	15.3	40	31	71	15.7	31.5	20.1	41	22	63	16.1	22.3	17.8
1911.....	34	34	68	13.5	34.6	19.5	41	26	67	16.3	26.5	19.1	34	15	49	13.5	15.3	14.0
1912.....	31	31	62	12.1	31.4	17.5	28	34	62	11.0	34.4	17.5	36	12	48	14.1	12.1	13.6
1913.....	23	33	56	9.0	33.6	15.8	30	19	49	11.8	19.4	13.8	40	20	60	15.6	20.4	17.0
1914.....	25	23	48	9.8	23.6	13.5	34	31	65	13.2	31.8	18.3	58	29	87	22.6	29.7	24.6
1915.....	13	26	39	5.0	26.3	10.9	70	44	114	27.0	44.5	31.9	39	32	71	15.1	32.3	19.8
1916.....	14	20	34	5.4	20.2	9.4	71	41	112	27.2	41.4	31.1	52	25	77	19.9	25.2	21.4

Year.	16 Malarial fevers.						17 Malignant growths.						18 Pneumonia, all forms.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	12	11	23	5.5	11.7	7.4	166	52	218	76.3	55.5	70.0	219	288	507	100.6	307.3	162.9
1906-1910 ¹	5	6	11	2.1	6.2	3.2	212	64	276	88.3	66.2	81.9	246	304	550	102.5	314.0	163.2
1911-1915 ¹	2	1	3	.8	1.0	.8	259	80	339	101.4	81.2	95.8	262	285	547	102.6	298.5	154.6
1911.....	2	2	4	.8	2.0	1.1	245	71	286	85.5	72.3	81.8	278	310	588	110.5	315.7	168.2
1912.....	2	2	4	.8	2.0	1.1	245	78	323	96.3	79.1	91.5	251	274	525	98.7	277.7	148.7
1913.....	5	3	8	2.0	3.1	2.3	278	73	351	109.0	74.0	99.0	207	277	484	81.1	282.2	137.0
1914.....	3	3	6	1.2	.....	.8	259	85	344	101.1	86.9	97.8	242	226	468	94.4	231.5	132.3
1915.....	1	1	2	.4	1.0	.6	301	91	392	116.2	92.1	109.6	333	338	671	128.6	342.1	187.6
1916.....	2	1	3	.7	1.0	.8	294	93	387	112.7	93.8	107.5	305	299	604	116.9	301.6	167.7

Year.	19 Rheumatism, acute and chronic.						20 Rabies.						21 Softening of the brain.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	25	10	35	11.5	10.6	11.2	.....	.....	.....	.....	.....	.....	12	6	18	5.5	6.4	5.7
1906-1910 ¹	20	11	31	8.3	11.4	9.2	.....	.....	.....	.....	.....	.....	15	6	21	8.7	6.2	6.2
1911-1915 ¹	15	9	24	5.9	9.1	6.8	.....	.....	.....	.....	.....	.....	6	2	8	2.3	2.0	2.3
1911.....	17	8	25	6.7	8.1	7.1	.....	1	1	.....	1.0	0.3	10	1	11	3.9	1.0	3.1
1912.....	13	8	21	5.1	8.1	5.9	.....	.....	.....	.....	.....	.....	11	5	16	4.3	5.1	4.5
1913.....	13	10	23	5.1	10.2	6.5	1	.....	1	0.4	.....	.3	3	.....	3	1.2	.....	.8
1914.....	22	11	33	8.6	11.2	9.2	1	.....	1	.4	.....	.3	4	4	8	1.5	4.1	2.3
1915.....	13	6	19	5.0	6.1	5.3	1	.....	1	.4	.....	.3	2	2	4	.8	2.0	1.1
1916.....	13	5	18	5.0	5.0	5.0	.....	.....	.....	.....	.....	.....	2	.....	2	.8	.....	.6

¹ Annual average 5-year period.

TABLE 14.—*Number of deaths and relative mortality of certain specified diseases, contagious and otherwise, for the years mentioned below—Continued.*

Year.	22 Suicides.						23 Steam railroad accidents.						24 Street railroad accidents.					
	Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.			Deaths.			Death rates per 100,000.		
	W.	C.	To- tal.	W.	C.	To- tal.	W.	C.	To- tal.	W.	C.	To- tal.	W.	C.	To- tal.	W.	C.	To- tal.
1901-1905 ¹	46	5	51	21.1	5.3	16.4	18	6	24	8.3	6.4	7.7	6	2	8	2.8	2.1	2.6
1906-1910 ¹	62	9	71	25.8	9.3	21.1	18	7	25	7.5	7.2	7.4	11	4	15	4.6	4.1	4.4
1911-1915 ¹	71	10	81	27.8	10.2	22.9	7	1	8	2.7	1.0	2.3	12	3	15	4.7	3.0	4.2
1911.....	78	11	89	31.0	11.2	25.5	3	2	5	1.1	2.0	1.4	11	6	17	4.3	6.1	4.9
1912.....	80	9	89	31.6	9.2	25.1	13	2	15	5.1	2.0	4.2	16	3	19	6.2	3.0	5.3
1913.....	64	8	72	25.1	8.1	20.5	7	2	9	2.7	2.0	2.5	9	1	10	3.5	1.0	2.8
1914.....	59	8	67	22.7	8.1	18.9	5	2	7	2.0	2.1	2.0	13	4	17	5.1	4.1	4.8
1915.....	76	11	87	29.3	11.1	24.3	5	...	5	1.9	...	1.4	10	2	12	3.8	2.1	3.3
1916.....	77	11	88	29.4	11.0	24.5	5	3	8	1.9	3.1	2.2	6	3	9	2.3	3.0	2.5

TABLE 15.—*Deaths in the District of Columbia from cancers and other malignant tumors, by race and sex, for the years mentioned below.*

Calendar years.	White.		Colored.		Total.		
	M.	F.	M.	F.	M.	F.	All.
1901-1905 ¹	61	105	14	39	75	144	219
1906-1910 ¹	88	124	17	47	105	171	276
1911-1915 ¹	104	156	26	53	130	209	339
1911.....	83	132	25	46	108	178	286
1912.....	90	146	28	50	127	196	323
1913.....	114	164	23	50	137	214	351
1914.....	103	156	32	53	135	209	344
1915.....	121	180	23	68	144	248	392
1916.....	122	172	31	62	153	234	387

¹Annual average for 5-year period.

TABLE 16.—Deaths in the District of Columbia from cancers and other malignant growths, arranged with reference to sex, race, marital relation, age, and organs involved, during the calendar year 1916.

Location.	Total.	White.		Colored.		Marital relation.			Age.										
		Male.	Female.	Male.	Female.	Married or widowed.	Single.	Unknown.	Under 5 years.	5 to 9 years.	10 to 19 years.	20 to 29 years.	30 to 39 years.	40 to 49 years.	50 to 59 years.	60 to 69 years.	70 to 79 years.	80 to 89 years.	90 years and over.
<i>Head, face, neck, etc.:</i>																			
Brain.....	1				1		1						1						
Face.....	5	5				4	1						1		1	2	1		
Jaw.....	6	4	1	1		6								1	2	1	1		
Larynx.....	4	4				3	1							1	1	2			
Lip.....	2		2																
Mouth.....	1						1												
Neck.....	8	6		2		7	1				1			3	1	2	2	1	
Palate.....	1				1	1												1	
Throat.....	2	2				2									1	1			
Tongue.....	8	5	1	2		8								2	3	1	1	1	
Thyroid.....	3		2		1	2	1						1			1			
<i>Digestive system:</i>																			
Intestines.....	43	10	21	4	8	33	10				1	2	5	7	13	6	8	1	
Liver.....	44	19	18	3	4	33	11		1				4	4	11	12	9	3	
Oesophagus.....	8	7		1		8								2	1	2	3		
Pancreas.....	7	4	2		1	5	2							1	2	1	2	1	
Stomach.....	86	30	33	11	12	70	16						7	17	18	21	19	4	
<i>Female genitals:</i>																			
Breast.....	41		30		11	31	10						4	11	8	12	3	3	
Ovary.....	2		2			2								1		1			
Uterus.....	70		49		21	65	5					2	6	19	22	16	5		
<i>Unclassified:</i>																			
Bladder.....	11	6	1	4		8	3							2	2	3	4		
Breast.....	1	1				1							1						
Chest.....	2	2				1	1					1				1			
Femur.....	1				1	1									1				
Groin.....	1		1			1									1				
Kidney.....	7	4	3			4	3		2	1						1			
Lung.....	9	4	4		1	6	3				1		2	3	1		1		
Pelvis.....	1	1				1										1			
Penis.....	3	2		1		3										1	1	1	
Pleura.....	1		1												1				
Prostate.....	4	4				4									1	1	1	1	
Sacrum.....	1			1			1					1							
Scapula.....	1	1				1										1			
Spine.....	2	1	1			2								1		1			
Total.....	387	122	172	31	62	316	71		3	1	2	7	34	78	91	94	62	16	

TABLE 17.—Anterior poliomyelitis, acute—Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1912 to 1916, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1912.....		4	4		4.1	1.1	6	4	10	2.4	3.0	2.5	100.0		40.0
1913.....							4	1	5	1.6	1.0	1.4			
1914.....		1	1		1.0	.3	6	2	8	2.3	2.0	2.3	50.0		12.5
1915.....		2	2		2.1	.5	4	2	6	1.6	2.0	1.7	100.0		33.3
1912-1915.....		2	2		2.0	.6	5	2	7	2.0	2.0	2.0	100.0		28.6
1916.....	5	1	6	1.9	1.0	1.6	32	7	39	12.3	7.1	10.8	14.3	15.4	15.4

1 Annual average for 4 years.

TABLE 17a.—*Anterior poliomyelitis, acute—Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....						
February.....						
March.....	1		1		2	
April.....						
May.....						
June.....						
July.....	8	1			8	1
August.....	15	3	3		18	3
September.....	5		1		6	
October.....	3	1	2	1	5	2
November.....						
December.....						
Total.....	32	5	7	1	39	6

TABLE 17b.—*Anterior poliomyelitis, acute: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	1			2	1	50.0	3	1	33.3
1 to 4 years.....	18	1	5.5	5			23	1	4.3
5 to 9 years.....	6	1	16.6				6	1	16.6
10 to 19 years.....	3						3		
20 to 29 years.....	1	1	100.0				1	1	100.0
30 to 39 years.....	3	2	66.6				3	2	66.6
40 to 49 years.....									
50 to 59 years.....									
60 to 69 years.....									
70 years and over.....									
Total.....	32	5	15.6	7	1	14.3	39	6	15.4

TABLE 18.—*Chicken pox: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1907 to 1916, inclusive.*

Year.	Deaths.			Death rate per 100,000.			Cases reported.			Case rate per 100,000 of population.			Percentage of fatal cases.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1907-1910.....	0.25		0.25				478	103.2	581	196.8	106.3	171.0	0.05		0.4
1911-1915 ¹							726	174.0	900	284.5	177.0	254.6			
1911.....							411	160.0	571	160.6	162.2	161.3			
1912.....							689	183.0	872	271.0	195.6	247.0			
1913.....							906	186.0	1,092	355.1	189.5	309.1			
1914.....							830	201.0	1,031	324.1	205.9	291.5			
1915.....							795	138.0	933	307.0	139.7	260.8			
1916.....							918	221.0	1,139	351.9	222.9	316.4			

¹ Annual average for 5-year period.

TABLE 18a.—*Chicken pox: Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	145	.....	42	.....	187	.....
February.....	123	.....	39	.....	162	.....
March.....	142	.....	22	.....	164	.....
April.....	137	.....	28	.....	165	.....
May.....	78	.....	38	.....	116	.....
June.....	54	.....	13	.....	67	.....
July.....	18	.....	7	.....	25	.....
August.....	4	.....	2	.....	6	.....
September.....	6	.....	2	.....	8	.....
October.....	33	.....	5	.....	35	.....
November.....	79	.....	5	.....	84	.....
December.....	99	.....	21	.....	120	.....
Total.....	918	.....	221	.....	1,139	.....

TABLE 18b.—*Chicken pox: Cases and deaths, with percentage of deaths to cases, at certain age periods during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	25	.....	.....	12	.....	.....	37	.....	.....
1 to 4 years.....	215	.....	.....	62	.....	.....	277	.....	.....
5 to 9 years.....	486	.....	.....	99	.....	.....	585	.....	.....
10 to 19 years.....	147	.....	.....	32	.....	.....	179	.....	.....
20 to 29 years.....	29	.....	.....	9	.....	.....	38	.....	.....
30 to 39 years.....	12	.....	.....	5	.....	.....	17	.....	.....
40 to 49 years.....	3	.....	.....	2	.....	.....	5	.....	.....
50 to 59 years.....	1	.....	.....	.....	.....	.....	1	.....	.....
60 to 69 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	918	.....	.....	221	.....	.....	1,139	.....	.....

TABLE 19.—*Diphtheria: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1896 to 1916, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	37	17	54	17.0	18.0	17.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1905-1910 ¹	24	8	32	10.0	8.0	10.0	391	61	452	166.2	61.2	133.5	6.1	13.1	7.1
1911-1915 ¹	20	4	24	7.8	4.1	6.8	402	105	507	157.5	105.8	140.6	4.8	3.8	4.7
1911.....	16	3	19	6.0	3.0	5.0	428	90	518	167.3	91.7	146.3	3.7	3.3	3.7
1912.....	15	.....	15	6.0	.....	4.0	308	85	393	121.1	86.1	111.4	4.9	.....	3.8
1913.....	22	4	26	9.0	4.0	7.0	451	79	530	176.7	80.5	150.0	4.9	5.1	4.9
1914.....	21	7	31	9.0	7.0	9.0	367	85	452	143.3	87.1	127.8	6.5	8.2	6.9
1915.....	22	7	29	8.5	7.1	8.1	459	185	644	177.3	187.2	180.0	4.8	3.8	4.5
1916.....	26	7	33	9.9	7.1	9.2	484	163	647	185.5	164.4	179.7	5.4	4.3	5.1

¹ Annual average for 5-year period.

TABLE 19a.—*Diphtheria: Reported cases and deaths, by race and months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	86	1	28	1	114	2
February.....	27	5	7	.....	34	5
March.....	29	2	2	1	31	3
April.....	64	4	37	1	101	5
May.....	24	2	30	2	54	4
June.....	16	.....	6	.....	22	.....
July.....	12	.....	7	.....	19	.....
August.....	14	.....	3	.....	17	.....
September.....	21	1	19	1	40	2
October.....	54	2	7	.....	61	2
November.....	80	5	14	.....	94	5
December.....	58	3	2	1	60	4
Total.....	485	25	162	7	647	32

NOTE.—In addition to the above, one death was reported from croupous laryngitis. No culture was taken.

TABLE 19b.—*Diphtheria: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	16	.....	.....	13	2	15.4	29	2	6.9
1 to 4 years.....	110	16	13.6	31	2	9.7	141	18	12.8
5 to 9 years.....	159	6	3.8	22	1	4.5	181	7	3.9
10 to 19 years.....	123	.....	.....	48	.....	.....	171	.....	.....
20 to 29 years.....	43	2	4.7	24	1	4.2	67	3	4.5
30 to 39 years.....	15	1	6.7	5	.....	.....	20	1	5.0
40 to 49 years.....	13	.....	.....	7	1	14.3	20	1	5.0
50 to 59 years.....	1	.....	.....	6	.....	.....	7	.....	.....
60 to 69 years.....	1	.....	.....	4	.....	.....	5	.....	.....
70 years and over.....	3	.....	.....	3	.....	.....	6	.....	.....
Total.....	484	25	5.1	163	7	4.3	647	32	4.9

NOTE.—See Table 7. Deaths from diphtheria, arranged by statistical districts. See Table 7c. Deaths from diphtheria on streets and in alleys.

TABLE 20.—*Mensles: Deaths and death rates, cases and case rates, per 100,000 population, and percentages of deaths to cases, according to race, from 1901 to 1916, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	10	5	15	5.0	5.0	5.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	10	5	15	4.0	5.0	4.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911-1915 ¹	8	3	11	3.1	3.1	3.1	2,188	549	2,737	857.5	558.6	774.4	0.4	0.5	0.4
1911.....	16	6	22	6.0	6.0	6.0	2,813	635	3,448	1,090.5	646.8	974.0	.6	.9	.6
1912.....	4	3	7	2.0	3.0	2.0	1,146	492	1,638	457.7	498.6	464.1	.3	.6	.4
1913.....	18	6	24	7.0	6.0	7.0	4,749	964	5,713	1,862.2	982.2	1,617.1	.4	.6	.4
1914.....	1	.....	1	.....	1.0	.3	673	274	947	262.8	287.7	267.8	.....	.4	.1
1915.....	4	1	5	1.5	1.0	1.4	1,557	383	1,940	611.3	387.6	542.3	.2	.3	.3
1916.....	4	2	6	1.5	2.0	1.7	2,376	266	2,642	910.9	268.3	733.9	.2	.8	.2

¹ Annual average for 5-year period.

TABLE 20a.—*Measles: Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	59	.....	16	.....	75	.....
February.....	121	.....	6	.....	126	.....
March.....	316	.....	16	.....	332	.....
April.....	465	1	60	.....	525	1
May.....	427	.....	66	1	493	1
June.....	567	1	38	1	605	2
July.....	336	2	45	.....	381	2
August.....	48	.....	13	.....	61	.....
September.....	13	.....	1	.....	14	.....
October.....	8	.....	.....	.....	8	.....
November.....	8	.....	1	.....	9	.....
December.....	9	.....	4	.....	13	.....
Total.....	2,376	4	266	2	2,642	6

TABLE 20b.—*Measles: Cases and deaths, with percentage of deaths to cases, at certain age periods during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	61	.....	.....	12	1	8.3	73	1	1.4
1 to 4 years.....	741	2	0.3	90	.....	.....	831	2	.2
5 to 9 years.....	1,223	1	.1	104	1	.9	1,327	2	.2
10 to 19 years.....	243	1	.4	34	.....	.....	277	1	.4
20 to 29 years.....	82	.....	.....	25	.....	.....	107	.....	.....
30 to 39 years.....	20	.....	.....	1	.....	.....	21	.....	.....
40 to 49 years.....	.....	.....	.....	.....	.....	.....	5	.....	.....
50 to 59 years.....	1	.....	.....	.....	.....	.....	1	.....	.....
60 to 69 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	2,376	4	.2	266	2	.8	2,642	6	.2

NOTE.—See Table 7c. Deaths from measles on streets and in alleys.

TABLE 21.—*Meningitis, epidemic cerebrospinal: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1916, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	6	4	10	2.8	4.3	3.2	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	9	7	16	3.7	7.2	4.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911-1915 ¹	3	1	4	1.2	1.0	1.1	4	2	6	1.6	2.0	1.7	75.0	50.0	66.6
1911.....	4	.....	4	1.5	.....	1.2	7	1	8	2.7	1.0	2.3	57.1	.....	50.0
1912.....	4	.....	4	1.6	.....	1.1	4	3	7	1.6	3.0	2.0	75.0	33.3	57.1
1913.....	2	1	3	.....	1.0	.....	.....	.....	4	1.2	1.0	1.1	66.6	100.0	75.0
1914.....	2	3	5	.....	8.1	.....	.....	.....	8	1.6	4.1	2.3	50.0	75.0	62.5
1915.....	5	1	6	1.9	1.0	1.7	4	1	5	1.5	1.0	1.4	100.0	100.0	100.0
1916.....	2	2	4	.8	2.0	1.1	4	2	6	1.5	2.0	1.7	50.0	100.0	66.6

¹ Annual average for 5-year period.

TABLE 21a.—*Meningitis, epidemic cerebrospinal: Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	1	1	1	1	2	2
February.....	1	1			1	1
March.....	1				1	
April.....						
May.....						
June.....			1	1	1	1
July.....						
August.....						
September.....						
October.....						
November.....						
December.....	1				1	
Total.....	4	2	2	2	6	4

TABLE 21b.—*Meningitis, epidemic cerebrospinal: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	1	1	100				1	1	100.0
1 to 4 years.....	1						1		
5 to 9 years.....				1	1	100	1	1	100.0
10 to 19 years.....	1			1	1	100	2	1	50.0
20 to 29 years.....	1	1	100				1	1	100.0
30 to 39 years.....									
40 to 49 years.....									
50 to 59 years.....									
60 to 69 years.....									
70 years and over.....									
Total.....	4	2	50	2	2	100	6	4	66.6

TABLE 22.—*Pellagra: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1913 to 1916, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1913.....		4	4		4.1	1.1		4	4		4.1	1.1	100.0		100.0
1914.....	2	12	14	0.8	12.1	3.9	6	15	21	2.3	15.1	5.9	33.3	80.0	66.6
1915.....	5	11	16	1.9	11.1	4.5	6	16	22	2.3	16.2	6.1	83.3	68.7	72.7
1913-1915 ¹	2	9	11	.8	9.2	3.1	4	12	16	1.6	12.2	4.5	50.0	75.0	68.8
1916.....	8	1	9	3.1	1.0	2.5	11	5	16	4.2	5.0	4.4	72.8	20.0	56.3

¹ Annual average for 3 years.

TABLE 22a.—Pellagra: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	3	2			3	2
February.....		1	3	1	3	2
March.....	1	1			1	1
April.....						
May.....						
June.....	1	1			1	1
July.....	3	2	1		4	2
August.....	1	1			1	1
September.....						
October.....	1				1	
November.....	1		1		2	
December.....						
Total.....	11	8	5	1	16	9

TABLE 22b.—Pellagra: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year.....									
1 to 4 years.....									
5 to 9 years.....									
10 to 19 years.....	1						1		
20 to 29 years.....	1	1	100.0				1	1	100.0
30 to 39 years.....	1	1	100.0	3	1	33.3	4	2	50.0
40 to 49 years.....	4	2	50.0				4	2	50.0
50 to 59 years.....	1	2	200.0	1			2	2	100.0
60 to 69 years.....	3	2	66.6	1			4	2	50.0
70 years and over.....									
Total.....	11	8	72.8	5	1	20.0	16	9	56.3

¹ The apparent discrepancy between the cases reported and percentage of deaths is due to the fact that a case died that was reported the previous year.

TABLE 23.—Scarlet fever: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1896 to 1916, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	7	1.0	8	3.0	1.0	3.0									
1906-1910 ¹	9	2.0	11	4.0	2.0	3.0	480	46	526	199.5	48.0	154.9	1.9	4.3	2.1
1911-1915 ¹	6	.4	6	2.3	.4	1.7	402	36	438	137.5	36.6	123.9	1.5	1.1	1.4
1911.....	4		4	2.0		1.0	250	21	271	97.7	21.4	76.5	1.6		1.5
1912.....	4		4	2.0		1.0	234	25	259	92.0	25.3	73.4	1.7		1.5
1913.....	13	1.0	14	5.0	1.0	4.0	503	53	556	137.1	54.0	157.4	2.6	1.9	2.5
1914.....	1		1	.4		.3	294	17	311	114.8	17.4	87.9	.3		.3
1915.....	7	1.0	8	2.7	1.0	2.2	728	66	794	281.1	66.8	221.9	1.0	1.5	1.0
1916.....	5	1.0	6	1.9	1.0	1.6	474	56	530	181.7	56.5	147.2	1.1	1.8	1.1

¹ Annual average for 5-year period.

TABLE 23a.—Scarlet fever: Reported cases and deaths, by race and months, during the calendar year 1916.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	55	.....	4	.....	59	.....
February.....	63	1	12	1	75	2
March.....	61	2	9	.....	70	2
April.....	46	.....	5	.....	51	.....
May.....	34	1	2	.....	36	1
June.....	16	1	2	.....	18	1
July.....	11	.....	.....	.....	11	.....
August.....	20	.....	2	.....	22	.....
September.....	36	.....	1	.....	37	.....
October.....	25	.....	14	.....	39	.....
November.....	46	.....	2	.....	48	.....
December.....	61	.....	3	.....	64	.....
Total.....	474	5	56	1	53	6

TABLE 23b.—Scarlet fever: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	4	.....	.....	2	.....	.....	6	.....	.....
1 to 4 years.....	92	2	2.2	8	.....	.....	100	2	1.0
5 to 9 years.....	198	2	1.0	21	.....	.....	219	2	.9
10 to 19 years.....	132	1	.8	20	.....	.....	152	1	.6
20 to 29 years.....	34	.....	.....	3	1	33.3	37	1	2.7
30 to 39 years.....	13	.....	.....	2	.....	.....	15	.....	.....
40 to 49 years.....	1	.....	.....	.....	.....	.....	1	.....	.....
50 to 59 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60 to 69 years.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	474	5	1.1	56	1	1.8	530	6	1.1

NOTE.—See Table 7, "Deaths from scarlet fever arranged by statistical districts." See Table 7c, "Deaths from scarlet fever on streets and in alleys."

TABLE 24.—Smallpox: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1916, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 of pop- ulation.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	1.0	2.0	3.0	0.5	2.1	1.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹.....	.4	.4	.8	.2	.4	.2	28	53	81	11.1	54.6	24.1	.....	.....	.....
1911-1915 ¹.....	.....	.....	.....	.....	.....	.....	19	51	70	7.4	51.9	19.8	.....	.....	.....
1911.....	.....	.....	.....	.....	.....	.....	23	13	36	9.0	13.2	10.2	.....	.....	.....
1912.....	.....	.....	.....	.....	.....	.....	2	7	9	.8	7.1	2.6	.....	.....	.....
1913.....	.....	.....	.....	.....	.....	.....	11	129	140	4.3	131.4	39.6	.....	.....	.....
1914.....	.....	.....	.....	.....	.....	.....	53	97	150	20.7	99.4	42.4	.....	.....	.....
1915.....	.....	.....	.....	.....	.....	.....	8	7	15	3.1	7.1	4.2	.....	.....	.....
1916.....	.....	.....	.....	.....	.....	.....	3	1	4	1.2	1.0	1.1	.....	.....	.....

¹ Annual average for 5-year period.

TABLE 24a.—Smallpox: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....						
February.....						
March.....						
April.....						
May.....			1		1	
June.....						
July.....						
August.....	1				1	
September.....	2				2	
October.....						
November.....						
December.....						
Total.....	3		1		4	

TABLE 24b.—Smallpox: Cases and deaths, with percentage of deaths to cases at certain age periods during the calendar year 1916.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year.....									
1 to 4 years.....									
5 to 9 years.....									
10 to 19 years.....									
20 to 29 years.....	3						3		
30 to 39 years.....				1			1		
40 to 49 years.....									
50 to 59 years.....									
60 to 69 years.....									
70 years and over.....									
Total.....	3			1			4		

TABLE 25.—Tuberculosis, reportable forms: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1908 to 1916, inclusive.

Year	Deaths.			Death rate per 100,000.			Cases reported.			Case rate per 100,000 of population.			Percentage of fatal cases.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1908-1910.....	277	392	669	112.8	402.4	195.1	570	637	1,207	231.7	654.1	351.5	48.6	61.6	55.5
1911-1915 ¹	318	429	747	124.6	436.5	211.3	567	587	1,154	222.2	597.3	326.5	56.1	73.1	64.7
1911.....	351	451	802	139.6	459.5	229.4	580	644	1,224	226.7	676.0	345.7	60.5	70.0	65.5
1912.....	326	464	790	128.2	470.2	223.8	577	635	1,212	223.0	643.5	343.4	56.5	73.1	65.2
1913.....	338	421	759	132.5	428.9	214.8	597	584	1,181	231.0	595.0	334.2	56.6	72.1	64.3
1914.....	263	389	652	102.3	395.0	183.4	529	528	1,057	206.6	540.9	298.9	49.7	73.7	61.7
1915.....	312	422	734	120.5	427.1	205.2	552	543	1,095	213.2	549.5	306.1	56.5	77.7	67.0
1916.....	297	397	694	113.9	400.4	192.8	527	534	1,061	202.0	538.6	294.7	56.4	74.3	65.4

¹ Annual average for 5-year period.

TABLE 25a.—*Tuberculosis, reportable forms: Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	34	17	45	22	79	39
February.....	38	30	49	43	87	73
March.....	54	29	53	32	107	61
April.....	55	32	46	40	101	72
May.....	53	29	59	41	112	70
June.....	41	24	41	29	82	53
July.....	42	26	55	33	97	59
August.....	45	15	49	38	94	53
September.....	47	24	31	32	78	56
October.....	37	22	39	34	76	56
November.....	45	25	35	34	80	59
December.....	36	24	32	19	68	43
Total.....	527	297	534	397	1,061	694

TABLE 25b.—*Tuberculosis, reportable forms: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	2	2	100.0	2	2	100.00	4	4	100.0
1 to 4 years.....	6	4	66.7	10	3	30.0	16	7	43.8
5 to 9 years.....	2	1	50.0	17	8	47.1	19	9	47.4
10 to 19 years.....	37	15	40.5	81	51	62.9	118	66	55.9
20 to 29 years.....	134	70	52.2	171	120	69.0	305	190	62.3
30 to 39 years.....	150	73	48.7	125	105	84.0	275	178	64.7
40 to 49 years.....	86	58	67.4	72	53	73.6	158	111	70.3
50 to 59 years.....	64	45	70.3	30	34	113.3	94	79	84.0
60 to 69 years.....	23	17	60.7	19	15	78.9	47	32	68.1
70 years and over.....	18	12	66.6	7	6	85.7	25	18	72.0
Total.....	527	297	56.4	534	397	74.3	1,061	694	65.4

¹ The apparent discrepancy between the cases reported and the percentage of deaths is due to the fact that several cases died that had been reported in previous years.

TABLE 26.—*Reported cases and deaths in the District of Columbia from pulmonary tuberculosis, by race and by months and years.*

Year.	January.				February.				March.				April.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905.....	...	...	33	43	...	...	31	41	...	...	35	38	...	...	36	42
1906-1910.....	...	...	28	40	...	...	32	35	...	...	32	45	...	...	30	44
1911-1915.....	47	50	25	33	46	42	24	33	50	58	28	40	55	50	29	33
1911.....	40	53	21	40	60	40	30	31	55	63	37	26	44	52	29	36
1912.....	52	46	30	35	41	51	27	34	62	67	26	49	52	51	32	32
1913.....	53	72	19	34	43	58	24	40	43	48	37	40	64	54	34	26
1914.....	37	38	29	23	37	31	18	34	48	52	27	41	40	39	18	27
1915.....	52	44	25	33	48	31	23	26	44	59	25	42	73	56	32	46
1916.....	33	43	17	20	37	46	31	39	50	40	28	30	53	42	28	37

TABLE 24a.—Smallpox: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....						
February.....						
March.....						
April.....						
May.....			1		1	
June.....						
July.....						
August.....	1				1	
September.....	2				2	
October.....						
November.....						
December.....						
Total.....	3		1		4	

TABLE 24b.—Smallpox: Cases and deaths, with percentage of deaths to cases at certain age periods during the calendar year 1916.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.	Cases.	Deaths.	Percentage of deaths to cases.
Under 1 year.....									
1 to 4 years.....									
5 to 9 years.....									
10 to 19 years.....									
20 to 29 years.....	3						3		
30 to 39 years.....				1			1		
40 to 49 years.....									
50 to 59 years.....									
60 to 69 years.....									
70 years and over.....									
Total.....	3			1			4		

TABLE 25.—Tuberculosis, reportable forms: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1908 to 1916, inclusive.

Year	Deaths.			Death rate per 100,000.			Cases reported.			Case rate per 100,000 of population.			Percentage of fatal cases.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1908-1910.....	277	392	669	112.8	402.4	195.1	579	637	1,207	231.7	654.1	351.5	48.6	61.6	55.5
1911-1915 ¹	318	429	747	124.6	436.5	211.3	567	587	1,154	222.2	597.3	326.5	56.1	73.1	64.7
1911.....	351	451	802	139.6	459.5	229.4	580	644	1,224	226.7	676.0	345.7	60.5	70.0	65.5
1912.....	326	464	790	128.2	470.2	223.8	577	635	1,212	223.0	643.5	343.4	56.5	73.3	65.2
1913.....	338	421	759	132.5	428.9	214.8	597	584	1,181	231.0	595.0	334.2	56.6	72.1	64.3
1914.....	263	389	652	102.3	395.0	183.4	529	528	1,057	206.6	540.9	298.9	49.9	77.3	61.7
1915.....	312	422	734	120.5	427.1	205.2	552	543	1,095	213.2	549.5	306.1	56.5	77.7	67.0
1916.....	297	397	694	113.9	400.4	192.8	527	534	1,061	202.0	538.6	294.7	56.4	74.3	65.4

¹ Annual average for 5-year period.

TABLE 25a.—*Tuberculosis, reportable forms: Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	34	17	45	22	79	39
February.....	38	30	49	43	87	73
March.....	54	29	53	32	107	61
April.....	55	32	46	40	101	72
May.....	53	29	59	41	112	70
June.....	41	24	41	29	82	53
July.....	42	26	55	33	97	59
August.....	45	15	49	38	94	53
September.....	47	24	31	32	78	56
October.....	37	22	39	34	76	56
November.....	45	25	35	34	80	59
December.....	36	24	32	19	68	43
Total.....	527	297	534	397	1,061	694

TABLE 25b.—*Tuberculosis, reportable forms: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	2	2	100.0	2	2	100.00	4	4	100.0
1 to 4 years.....	6	4	66.7	10	3	30.0	16	7	43.8
5 to 9 years.....	2	1	50.0	17	8	47.1	19	9	47.4
10 to 19 years.....	37	15	40.5	81	51	62.9	118	66	55.9
20 to 29 years.....	134	70	52.2	171	120	69.0	305	190	62.3
30 to 39 years.....	150	73	48.7	125	105	84.0	275	178	64.7
40 to 49 years.....	86	58	67.4	72	53	73.6	158	111	70.3
50 to 59 years.....	64	45	70.3	30	34	113.3	94	79	84.0
60 to 69 years.....	28	17	60.7	19	15	78.9	47	32	68.1
70 years and over.....	18	12	66.6	7	6	85.7	25	18	72.0
Total.....	527	297	56.4	534	397	74.3	1,061	694	65.4

¹ The apparent discrepancy between the cases reported and the percentage of deaths is due to the fact that several cases died that had been reported in previous years.

TABLE 26.—*Reported cases and deaths in the District of Columbia from pulmonary tuberculosis, by race and by months and years.*

Year.	January.				February.				March.				April.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905.....	---	---	33	43	---	---	31	41	---	---	35	38	---	---	36	42
1906-1910.....	---	---	28	40	---	---	32	35	---	---	32	45	---	---	30	44
1911-1915.....	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1911.....	47	50	25	33	46	42	24	33	50	58	28	40	55	50	29	33
1912.....	40	53	21	40	60	40	30	31	55	63	37	26	44	52	29	36
1913.....	52	46	30	35	41	51	27	34	62	67	26	49	52	51	32	32
1914.....	53	72	19	34	43	58	24	40	43	48	37	40	64	54	34	26
1915.....	37	38	29	23	37	31	18	34	48	52	27	41	40	39	18	27
1916.....	52	44	25	33	48	31	23	26	44	59	25	42	73	56	32	46
1916.....	33	43	17	20	37	46	31	39	50	40	28	30	53	42	28	37

TABLE 26.—*Reported cases and deaths in the District of Columbia from pulmonary tuberculosis, by race and by months and years—Continued.*

Year.	May.				June.				July.				August.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905 ¹.....	.....	.....	29	37	.....	.....	31	36	.....	.....	23	35	.....	.....	27	37
1906-1910 ¹.....	.....	.....	25	36	.....	.....	24	29	.....	.....	21	34	.....	.....	25	28
1911-1915 ¹	48	53	27	36	43	48	25	32	52	51	27	36	37	39	22	29
1911.....	61	56	28	30	46	56	26	32	53	62	29	40	36	40	26	26
1912.....	44	65	31	48	41	57	21	44	56	48	25	48	40	40	20	27
1913.....	44	53	32	40	49	52	26	30	69	51	23	30	38	36	20	34
1914.....	43	37	22	28	38	41	23	25	50	54	33	28	37	32	22	30
1915.....	50	51	21	34	43	36	28	28	33	42	28	34	34	49	23	28
1916.....	50	56	27	38	40	37	22	26	40	53	21	32	44	47	14	38

Year.	September.				October.				November.				December.			
	Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.		Cases.		Deaths.	
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
1901-1905 ¹.....	.....	.....	25	29	.....	.....	27	32	.....	.....	30	32	.....	.....	27	36
1906-1910 ¹.....	.....	.....	24	35	.....	.....	25	35	.....	.....	19	35	.....	.....	29	38
1911-1915 ¹	40	44	20	26	40	38	20	31	40	38	25	28	38	35	24	29
1911.....	36	55	26	30	34	43	27	37	39	46	23	35	34	51	25	34
1912.....	36	47	18	20	45	40	23	29	41	35	26	29	35	35	26	25
1913.....	40	35	23	24	39	33	16	25	50	36	24	25	29	19	31	13
1914.....	52	47	16	22	44	32	15	31	36	37	25	25	42	42	12	37
1915.....	36	38	19	35	39	42	20	32	33	39	26	29	50	30	26	35
1916.....	45	31	21	28	39	36	21	32	42	31	21	34	34	32	24	17

SUMMARY.

Year	Cases.		Deaths.		Total.	
	White.	Colored.	White.	Colored.	Cases.	Deaths.
1901-1905 ¹.....	.....	.....	354	438	.....	792
1906-1910 ¹.....	.....	.....	314	434	.....	748
1911-1915 ¹	537	549	299	386	1,086	685
1911.....	538	617	327	397	1,155	724
1912.....	545	582	305	420	1,127	725
1913.....	561	547	309	361	1,108	670
1914.....	504	482	260	351	986	611
1915.....	535	517	296	402	1,052	698
1916.....	507	275	494	371	1,001	646

¹ Annual average for 5-year period.

TABLE 27.—*Typhoid fever: Deaths and death rates, cases and case rates, per 100,000 population, and percentage of deaths to cases, according to race, from 1901 to 1916, inclusive.*

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901-1905 ¹	99	64	163	45.0	68.0	52.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	73	46	119	30.0	48.0	35.0	660	237	897	274.3	244.9	265.9	11.0	19.6	13.0
1911-1915 ¹	33	26	59	12.9	26.4	16.7	343	137	480	134.4	139.4	135.0	9.6	19.0	12.3
1911.....	46	28	74	18.0	29.0	21.0	491	168	659	191.9	171.1	186.1	9.4	14.3	10.6
1912.....	49	29	78	19.0	29.0	22.0	400	185	585	157.3	187.5	165.8	12.0	15.1	13.0
1913.....	35	22	57	14.0	22.0	16.0	346	115	461	135.6	117.2	130.5	9.2	18.3	11.3
1914.....	17	28	45	7.0	29.0	13.0	230	109	339	89.8	112.7	96.1	7.4	24.5	13.0
1915.....	20	22	42	7.7	22.3	11.7	250	109	359	96.5	110.3	100.3	8.0	20.2	11.7
1916.....	25	21	46	9.6	21.2	12.7	212	96	308	81.3	96.8	85.5	11.8	21.9	14.9

¹ Annual average for 5-year period.TABLE 27a.—*Typhoid fever: Reported cases and deaths, by race and by months, during the calendar year 1916.*

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	9	3	4	.....	13	3
February.....	11	2	.....	.....	11	2
March.....	12	1	1	.....	13	1
April.....	10	2	4	1	14	3
May.....	12	.....	5	3	17	3
June.....	9	13	4	2	13	5
July.....	16	3	12	4	28	7
August.....	47	3	34	5	81	8
September.....	39	4	17	3	56	7
October.....	26	1	11	2	37	3
November.....	13	2	2	1	15	3
December.....	8	1	2	.....	10	1
Total.....	212	25	96	21	308	46

¹ One death from paratyphoid.TABLE 27b.—*Typhoid fever: Cases and deaths, with percentage of deaths to cases at certain age periods, during the calendar year 1916.*

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of death to cases.	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	1	.....	1.0	.....	.....	.....	1	.....	.....
1 to 4 years.....	8	.....	.....	5	1	20.1	13	1	7.7
5 to 9 years.....	18	.....	.....	10	2	20.0	28	2	7.1
10 to 19 years.....	56	6	10.7	38	8	21.1	94	14	14.9
20 to 29 years.....	64	7	10.9	22	7	31.8	86	14	16.3
30 to 39 years.....	34	16	17.6	16	3	18.8	50	9	18.0
40 to 49 years.....	14	3	21.4	4	.....	.....	18	3	16.7
50 to 59 years.....	13	3	23.1	.....	.....	.....	13	3	23.1
60 to 69 years.....	4	.....	.....	1	.....	.....	5	.....	.....
70 years and over.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	212	25	11.8	96	21	21.9	308	46	14.9

¹ One death from paratyphoid. See Table 7—Deaths from typhoid fever arranged by statistical districts. See Table 7c—Deaths from typhoid fever on streets and in alleys.

TABLE 27c.—Typhoid fever, by statistical districts, for the calendar year 1916.

Districts.	Population.	Cases.	Deaths.	Districts.	Population.	Cases.	Deaths.
1.....	11,209	7	.....	29.....	1,475	2	.....
2.....	5,402	5	1	30.....	2,339	1	.....
3.....	6,698	18	.....	31.....	4,319	4	.....
4.....	785	2	.....	32.....	4,648	5	1
5.....	6,731	15	2	33.....	7,532	7	1
6.....	14,109	19	3	34.....	1,479	.....	.....
7.....	6,368	1	.....	35.....	9,125	35	8
8.....	12,287	11	1	36.....	14,073	9	2
9.....	10,635	15	1	37.....	2,283	1	.....
10.....	10,919	17	2	38.....	3,250	1	.....
11.....	1,362	6	2	39.....	1,428	5	.....
12.....	2,131	1	.....	40.....	1,597	.....	.....
13.....	4,900	.....	.....	41.....	3,067	7	2
14.....	14,262	8	2	42.....	1,085	7	.....
15.....	9,663	31	5	43.....	5,094	7	.....
16.....	5,339	5	.....	44.....	6,462	10	2
17.....	14,502	5	1	45.....	1,586	1	.....
18.....	10,379	4	1	46.....	2,856	1	.....
19.....	3,557	1	.....	47.....	2,980	2	.....
20.....	3,511	2	.....	48.....	5,227	4	1
21.....	908	2	.....	49.....	1,172	3	1
22.....	158	.....	.....	50.....	6,570	14	4
23.....	536	.....	.....	51.....	1,220	1	.....
24.....	1,516	1	.....	52.....	216	.....	.....
25.....	3,314	5	.....	53.....	799	.....	.....
26.....	2,645	2	.....			
27.....	2,739	5	1				
28.....	493	.....	.....	Total.....	357,749	308	45

NOTE.—The above population is that given by the police department census for the year 1915. No census was taken in 1916.

TABLE 28.—Whooping cough: Deaths and death rates, cases and case rates, per 100,000 population, and percentages of deaths to cases, according to race, from 1896 to 1916, inclusive.

Year.	Deaths.			Death rates per 100,000.			Cases.			Case rate per 100,000 population.			Percentage of deaths to cases.		
	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.	W.	C.	Total.
1901 1905 ¹	27	50	77	12.0	53.0	25.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1906-1910 ¹	15	23	38	6.0	24.0	11.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1911-1915 ¹	10	19	29	3.9	19.3	8.2	525	197	722	205.8	200.4	204.3	1.9	9.6	4.0
1911.....	15	13	28	6.0	13.0	8.0	462	139	601	180.6	141.6	169.8	3.2	9.4	4.6
1912.....	29	44	73	8.0	45.0	18.0	1,088	390	1,478	427.9	395.2	418.8	1.8	11.3	4.3
1913.....	3	14	17	1.0	14.0	5.0	162	157	319	63.5	160.0	90.3	1.9	8.9	5.3
1914.....	5	13	18	2.0	13.0	5.0	424	113	537	105.6	115.8	151.8	1.2	11.5	3.4
1915.....	9	10	19	3.5	10.1	5.3	489	185	674	188.8	187.3	188.4	1.8	5.4	2.8
1916.....	17	24	41	6.5	24.2	11.4	1,612	612	2,224	617.9	617.3	617.8	1.1	3.9	1.8

¹ Annual average for 5-year period.

TABLE 28a.—Whooping cough: Reported cases and deaths, by race and by months, during the calendar year 1916.

Month.	White.		Colored.		Total.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January.....	24	.....	23	2	47	2
February.....	26	.....	13	1	39	1
March.....	37	.....	25	1	62	1
April.....	69	.....	39	1	108	1
May.....	138	2	54	1	192	3
June.....	247	3	90	5	337	8
July.....	527	4	211	6	738	10
August.....	320	1	78	2	398	3
September.....	88	5	20	2	108	7
October.....	76	1	35	1	111	2
November.....	21	.....	15	1	36	2
December.....	39	1	9	1	48	1
Total.....	1,612	17	612	24	2,224	41

TABLE 28b.—Whooping cough: Cases and deaths, with percentage of deaths to cases, at certain age periods, during the calendar year 1916.

Age.	White.			Colored.			Total.		
	Cases.	Deaths.	Percent- age of deaths to cases.	Cases.	Deaths.	Percent- age of death to cases.	Cases.	Deaths.	Percent- age of deaths to cases.
Under 1 year.....	144	13	9.0	104	14	13.5	248	27	10.9
1 to 4 years.....	800	4	.5	301	10	3.3	1,101	14	1.3
5 to 9 years.....	584			185			769		
10 to 19 years.....	55			16			71		
20 to 29 years.....	10			3			13		
30 to 39 years.....	11			2			13		
40 to 49 years.....	3						3		
50 to 59 years.....	3						3		
60 to 69 years.....				1			1		
70 years and over.....	2						2		
Total.....	1,612	17	1.1	612	24	3.9	2,224	41	1.8

NOTE.—See table 7c—Deaths from whooping cough on streets and in alleys.

TABLE 29.—Population and deaths, by race, in the District of Columbia from pneumonia, bronchitis, and congestion of the lungs, and from said diseases taken together, and showing also the death rate per 100,000 of each of such classes of deaths.

Calendar year.	Population.		Pneumonia.				Bronchitis.			
			White.		Colored.		White.		Colored.	
	White.	Colored	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.
1901-1905 ¹	217,606	93,719	219	101	288	307	55	25	80	85
1906-1910 ¹	240,244	96,696	246	102	304	314	61	25	67	69
1911-1915 ¹	255,360	98,453	262	103	285	289	51	20	42	43
1911.....	251,409	98,159	278	110	310	316	49	19	38	39
1912.....	254,260	98,676	251	99	274	278	50	20	45	46
1913.....	255,153	98,144	207	81	277	282	58	23	41	42
1914.....	256,049	97,615	242	95	226	232	46	18	50	51
1915.....	258,940	98,809	333	129	338	342	52	20	35	36
1916.....	260,854	99,143	305	117	299	302	39	15	38	38

Calendar year.	Population.		Congestion of lungs.				Pneumonia, bronchitis, and con- gestion of lungs.			
			White.		Colored.		White.		Colored.	
	White.	Colored	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.	Deaths.	Death rate per 100,000.
1901-1905 ¹	217,606	93,719	33	15	25	27	307	141	393	419
1906-1910 ¹	240,244	96,696	27	11	13	13	334	139	384	397
1911-1915 ¹	255,360	98,453	13	5	7	7	326	128	334	339
1911.....	251,409	98,159	19	8	11	11	346	137	359	366
1912.....	254,260	98,676	22	9	9	9	323	127	328	332
1913.....	255,153	98,144	9	4	12	12	274	107	330	336
1914.....	256,049	97,615	9	4	3	3	297	116	279	286
1915.....	258,940	98,809	5	2	3	3	390	151	376	381
1916.....	260,854	99,143	5	2	4	4	349	134	341	244

¹ Annual average for 5-year period.

TABLE 30.—*Showing births (stillbirths excluded) reported in the District of Columbia, by race and sex and by months, during the calendar year 1916.*

Months.	Total.	White.		Colored.		Twins.		Illegiti- mates.		Attended by physicians.		Attend- ed by mid- wives.	
		Males.	Females.	Males.	Females.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
January.....	654	241	195	120	98	4	6	11	40	405	199	31	19
February.....	608	225	173	105	105	6	2	8	54	372	185	26	25
March.....	642	235	232	81	94	14	.....	6	25	442	145	25	30
April.....	536	186	196	77	77	6	4	4	35	358	139	24	15
May.....	548	180	183	93	92	8	6	8	36	337	166	26	19
June.....	596	218	198	75	105	12	2	9	36	392	159	24	21
July.....	588	205	207	91	85	4	.....	4	25	384	155	28	21
August.....	703	266	237	104	96	10	8	8	40	478	172	25	28
September.....	609	210	225	81	93	2	6	6	22	407	151	28	23
October.....	583	217	201	81	84	12	4	3	24	396	148	22	17
November.....	593	199	210	88	96	2	2	8	29	389	168	20	16
December.....	598	201	202	112	83	4	6	6	37	374	179	29	16
Total, sex and color.....		2,583	2,459	1,108	1,108								
Total by race.....		5,042		2,216		84	46	81	403	4,734	1,966	308	250
Total for year.....	7,258	7,258				130		484		6,700		558	

TABLE 31.—*Reported births (stillbirths excluded) in institutions in the District of Columbia, by race and sex and place of birth, during the calendar year 1916.*

Hospitals.	White.		Colored.		Total.		
	Male.	Female.	Male.	Female.	White.	Colored.	All.
Blue Plains.....	...	1	...	1	1	1	2
Casualty.....	12	9	17	5	21	22	43
Columbia.....	163	177	131	122	340	253	593
Emergency.....	16	18	...	...	34	...	34
Florence Crittenton.....	9	8	...	...	17	...	17
Freedmen's.....	1	...	141	144	1	285	286
Fry's.....	1	1	...	...	2	...	2
Garfield.....	66	82	35	50	148	85	233
Georgetown.....	131	134	16	14	265	30	295
George Washington.....	117	100	...	...	217	...	217
Homeopathic.....	35	34	57	49	69	106	175
Providence.....	117	103	...	...	220	...	220
Sibley.....	245	239	...	...	484	...	484
St. Ann's.....	15	7	...	...	22	...	22
Walter Reed.....	3	2	...	...	5	...	5
Washington Asylum.....	5	1	30	25	6	55	61
Washington Sanitarium.....	1	...	...	...	1	...	1
	937	916	427	410	1,853	837	2,690

TABLE 32.—*Births (stillbirths excluded) reported in the District of Columbia, arranged by race, and by legitimacy and illegitimacy, and number of multiple births for the years mentioned.*

Calendar years.	Legitimate.			Illegitimate.			Total.			Twins.			Triplets.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	All.	White.	Colored.	Total.	White.	Colored.	Total.
1896-1900 ¹	2,712	1,380	4,092	86	491	577	2,798	1,871	4,669	71	42	113	1	...	1
1901-1905 ¹	3,335	1,499	4,834	95	481	576	3,430	1,980	5,409	72	52	124	1	2	3
1906-1910 ¹	4,533	1,786	6,319	99	482	581	4,632	2,268	6,900	84	46	130	1	1	2
1911-1915 ¹	4,690	1,769	6,459	104	464	568	4,794	2,234	7,028	75	52	130	1	1	2
1916.....	4,961	1,813	6,774	81	403	484	5,042	2,216	7,258	83	45	128	...	...	...

¹Annual average for 5-year period.TABLE 33.—*Stillbirths reported in the District of Columbia during the calendar year 1916, by race and sex, and certain data relative thereto.*

	White.			Colored.			Unknown race.			Total.
	Male.	Female.	Sex unknown.	Male.	Female.	Sex unknown.	Male.	Female.	Sex unknown.	
Legitimacy:										
Legitimate.....	100	62	.....	69	60	.....	2	2	.....	291
Illegitimate.....	3	5	.....	41	22	.....	11	15	24	75
Unknown.....	1	.....	.....	.....	.....	.....	.....	.....	.....	51
Total.....	104	67	.....	110	82	.....	13	17	24	417
Period uterogestation:										
4 months and under.....	7	7	.....	1	1	.....	2	4	23	45
5 months.....	4	5	.....	7	2	.....	.....	4	.....	22
6 months.....	15	5	.....	17	13	.....	1	2	.....	53
7 months.....	12	14	.....	18	20	.....	2	1	.....	67
8 months.....	19	9	.....	23	14	.....	3	3	1	72
9 months.....	17	10	.....	27	23	.....	5	3	.....	85
10 months.....	30	17	.....	17	9	.....	.....	.....	.....	73
Total.....	104	67	.....	110	82	.....	13	17	24	417
Reported by physicians.....	99	64	.....	93	73	.....	2	2	.....	333
Reported by coroner.....	5	3	.....	17	9	.....	11	15	24	84
Total.....	104	67	.....	110	82	.....	13	17	24	417
Causes:										
Maternal illness.....	10	6	.....	2	.....	.....	.....	.....	.....	18
Maternal injury.....	3	1	.....	3	3	.....	.....	.....	.....	10
Prematurity.....	2	4	.....	1	1	.....	.....	.....	.....	8
Prolapsed funis.....	7	1	.....	4	2	.....	.....	.....	.....	14
Placenta previa.....	3	3	.....	2	.....	.....	.....	.....	.....	8
Uterine hemorrhage.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Malpresentation.....	5	5	.....	1	1	.....	.....	1	.....	13
Malformation.....	2	1	.....	1	.....	.....	.....	.....	.....	4
Difficult labor.....	4	2	.....	2	3	.....	.....	.....	.....	11
Cesarean section.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Strangulated funis.....	2	1	.....	3	.....	.....	.....	.....	.....	6
Asphyxia.....	3	5	.....	1	1	.....	.....	.....	.....	10
Placental separation, premature.....	2	3	.....	2	2	.....	.....	.....	.....	9
Deformed pelvis.....	1	1	.....	1	.....	.....	.....	.....	.....	3
Placental degeneration.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Hydramnios.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Syphilis.....	.....	2	.....	9	7	.....	.....	.....	.....	18
Twins.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
Overwork of mother.....	1	3	4
Unknown cause.....	58	29	76	58	13	16	24	274
Total.....	104	67	110	82	13	17	24	417



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